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ENCLOSURE 5 QUARTERLY GROUNDWATER SAMPLING AT STUDY AREA 38 NTC  
ORLANDO FL  
6/1/2009  
BARNES, FERLAND AND ASSOCIATES

## ENCLOSURE 5

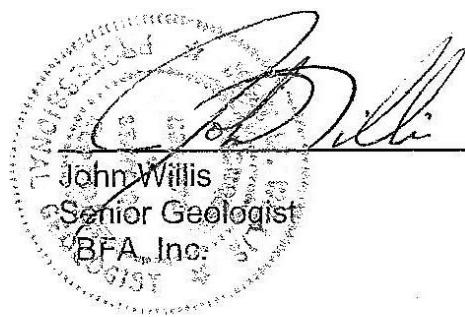
### QUARTERLY GROUNDWATER SAMPLING AT SA 38 NAVAL TRAINING CENTER, ORLANDO

June 2009

<i>PREPARED FOR:</i>	Mr. Art Sanford EV3, Environmental Restoration NAVFAC, SE
<i>PREPARED BY:</i>	Barnes, Ferland and Associates Inc.
<i>FIELD TEAM:</i>	Darren Miller, Damian Allen
<i>CONTRACT NUMBER:</i>	N69450-08-R-8001
<i>TASK ORDER NUMBER:</i>	0002
<i>TASK ORDER MANAGER:</i>	John W. Willis, MS, P.G.
<i>SUBMITTAL DATE:</i>	August 2009

**SIGNATURE PAGE**

We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.

A handwritten signature of John Willis in black ink, featuring stylized initials and a surname.

John Willis  
Senior Geologist  
BFA, Inc.

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Date

PG-FL 1770  
Registration No

A handwritten signature of Darren Miller in black ink, featuring stylized initials and a surname.

Darren Miller  
Field Supervisor  
BFA, Inc.

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Date

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## 1.0 INTRODUCTION

This report presents the results of the June 2009 groundwater sampling performed by Barnes Ferland and Associates (BFA) at Study Area 38 at the Naval Training Center (NTC) Orlando in Orlando, Florida.

This work was performed under Contract No. N62467-03-G-0297, Contract Task Order (CTO) No. 0002. Field activities were performed in accordance with the *Work Plan: Long Term Monitoring Services at Former Naval Training Center, Orlando, Florida* [BFA, 2008].

## 2.0 SUMMARY OF FIELD ACTIVITIES AND RESULTS

### 2.1 Deviations from Work-Plan

None noted

### 2.2 Water level measurements

Groundwater level measurements were collected from 13 SA38 monitoring wells on June 5, 2009. The CMT wells were not used for groundwater flow measurements.

The groundwater levels and the groundwater elevations calculated from these water levels are shown in **Table 1** and have been plotted graphically along with the groundwater flow directions inferred from these data in **Figure 1**. The flow pattern in the C wells is from the west to the east.

### 2.3 Groundwater Sampling

Groundwater sampling was conducted at SA38 on June 5 and 8, 2009. Fourteen (14) monitoring wells were purged and sampled using the low-flow method described in the work plan. **Table 2** contains the field parameters taken at stabilization after the completion of well purging.

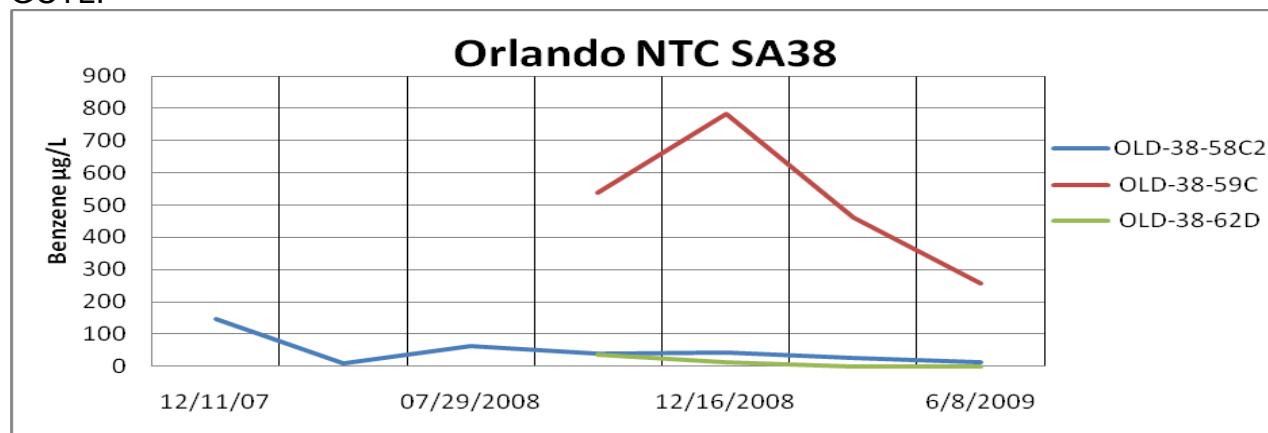
### 2.4 Analytical Results

Groundwater analyte detections are shown in **Table 3**. For all analytes, the screening criterion is the Florida Department of Environmental Protection FDEP MCLs as given in the Drinking Water Standards (FAC 62-550 table 1), Maximum Contaminant Limits (MCL) for Volatile Organic Compounds) and FAC 62-777 Table V, Natural Attenuation Default Concentrations (NADC). Bolded values within the tables indicate detected analyte concentrations. Yellow highlights indicate results above the FDEP MCL/GCTL and/or 62-777 Groundwater Cleanup Target Levels (GCTL). Orange highlighted values indicate concentrations in excess of FDEP NADC.

Benzene was found above the GCTL of 1 µg/L in OLD 38- 51D (1.1 µg/L), OLD 38-58C2 (12.4 µg/L) and OLD 38-59C (257 µg/L). Isopropylbenzene was detected above the GCTL of 0.8 µg/L in OLD 38-58C2 (1.0 µg/L). Naphthalene was detected above the GCTL of 20 µg/L in OLD 38-55D (52.4 µg/L). Other organics were detected in some of the wells but were below the appropriate GCTL's.

## 2.5 Evaluation of Natural Attenuation

The sampling results continue to indicate the decrease of the contaminants of concern (BTEX and VOH) in the effected wells. The very low oxygen concentrations and high hydrogen and methane concentrations indicate that conditions are anoxic and reductive dechlorination of the remaining VOH is occurring, but this slows the destruction of the BTEX which require oxygen for efficient biological degradation. All VOH have decreased to below GCTL.



## 3.0 CONCLUSIONS AND RECOMMENDATIONS

### **Conclusions:**

It is the opinion of BFA that the analytical data indicates the probability that:  
The methylene chloride present in the samples is thought to be a lab error, otherwise the VOH concentrations have dropped to undetectable levels and are no longer an issue at this site;  
The BTEX contamination present represents a detached plume that escaped the source areas before remediation efforts were successful in reducing and then eliminating the sources;  
The center of the detached BTEX plume has passed well OLD SA38-59C but has not reached the downgradient wells 60C or 61C.

***Recommendations:***

Based on our observations and the analytical data to date, the following is recommended for this site:

The sampling of the SA38 wells from 58C2 through 68D should continue until GCTL is met in all of the site's monitoring wells.

## **TABLES**

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<b>Table 1</b>	Groundwater Elevations Summary
<b>Table 2</b>	Field Parameters
<b>Table 3</b>	Analytical results in Groundwater

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<b>Table 1 Study Area 38 Groundwater Elevations, June 2009</b>						
<b>WELL ID</b>	<b>Date Sampled</b>	<b>Well DIA</b>	<b>Screen Interval (ft.) (BGS)</b>	<b>TOC Elevation (ft) (AMSL)</b>	<b>Depth-to-Water (ft) (BTOC)</b>	<b>Groundwater Elevation (ft) (AMSL)</b>
OLD-38-49D	6/5/2009	2"	57'-62'	113.33	7.30	106.03
OLD-38-50C	6/5/2009	1"	33'-38'	113.87	7.75	106.12
OLD-38-51D	6/5/2009	1"	45'-50'	113.88	7.75	106.13
OLD-38-52C	6/5/2009	1"	35'-40'	114.32	8.06	106.26
OLD-38-53D	6/5/2009	1"	44'-49'	114.33	8.06	106.27
OLD-38-54C	6/5/2009	1"	35'-40'	112.50	5.71	106.79
OLD-38-55D	6/5/2009	1"	45'-50'	112.53	5.71	106.82
OLD-38-56C	6/5/2009	1"	30'-35'	114.65	7.82	106.83
OLD-38-57A	6/5/2009	1"	5'-15'	113.70	4.12	109.58
OLD-38-58 (C-1)	6/5/2009	0.375"	30'-35'	113.18	NM	
OLD-38-58 (C-2)	6/5/2009	0.375"	40'-45'	113.19	NM	
OLD-38-59C	6/5/2009	1.5"	35'-40'	106.09	1.73	104.34
OLD-38-60C	6/5/2009	1.5"	30'-35'	105.94	2.75	103.18
OLD-38-61C	6/5/2009	1.5"	30'-35'	105.73	3.38	102.33
OLD-38-62D	6/5/2009	1.5"	55'-60'	106.31	2.90	103.39

	<b>Notes:</b>
	All measurements are in units of feet.
	BGS - Below ground surface.
	BTOC - Below top of casing
	NM - Not measured.

<b>Table 2 Study Area 38 Field Parameters, June 2009</b>							
<b>Well ID</b>	<b>Date</b>	<b>DO mg/l</b>	<b>Temp °C</b>	<b>Conductivity µS</b>	<b>pH</b>	<b>ORP mv</b>	<b>Turbidity NTU</b>
OLD-38-49D	6/5/2009	0.60	27.76	202.0	4.95	-95.5	144
OLD-38-50C	6/5/2009	1.03	25.64	149.0	4.20	-46.5	2.0
OLD-38-51D	6/5/2009	0.60	25.74	215.0	4.33	-67.7	4.7
OLD-38-52C	6/5/2009	0.03	26.28	259.1	4.88	71.0	1.3
OLD-38-53D	6/5/2009	0.01	26.44	253.4	4.89	77.0	7.4
OLD-38-54C	6/8/2009	0.01	25.79	105.4	5.04	21.0	4.5
OLD-38-55D	6/5/2009	0.01	26.38	157.1	5.25	-2.00	14.5
OLD-38-56C	6/8/2009	0.00	25.94	118.0	4.62	88.0	0.4
OLD-38-58 (C-1)	6/8/2009	0.09	25.98	650.6	6.61	-163.0	0.1
OLD-38-58 (C-2)	6/8/2009	0.01	26.45	425.7	6.44	-113.0	4.6
OLD-38-59C	6/5/2009	0.50	26.54	124.0	4.34	-82.0	0.3
OLD-38-60C	6/5/2009	0.10	26.69	196.3	4.87	24.0	2.2
OLD-38-61C	6/5/2009	0.03	26.60	190.4	5.96	-47.0	0.7
OLD-38-62D	6/5/2009	0.50	26.72	192.0	4.93	-109.2	2.8

## **SA 38, Orlando NTC Monitoring Report Barnes Ferland and Associates**

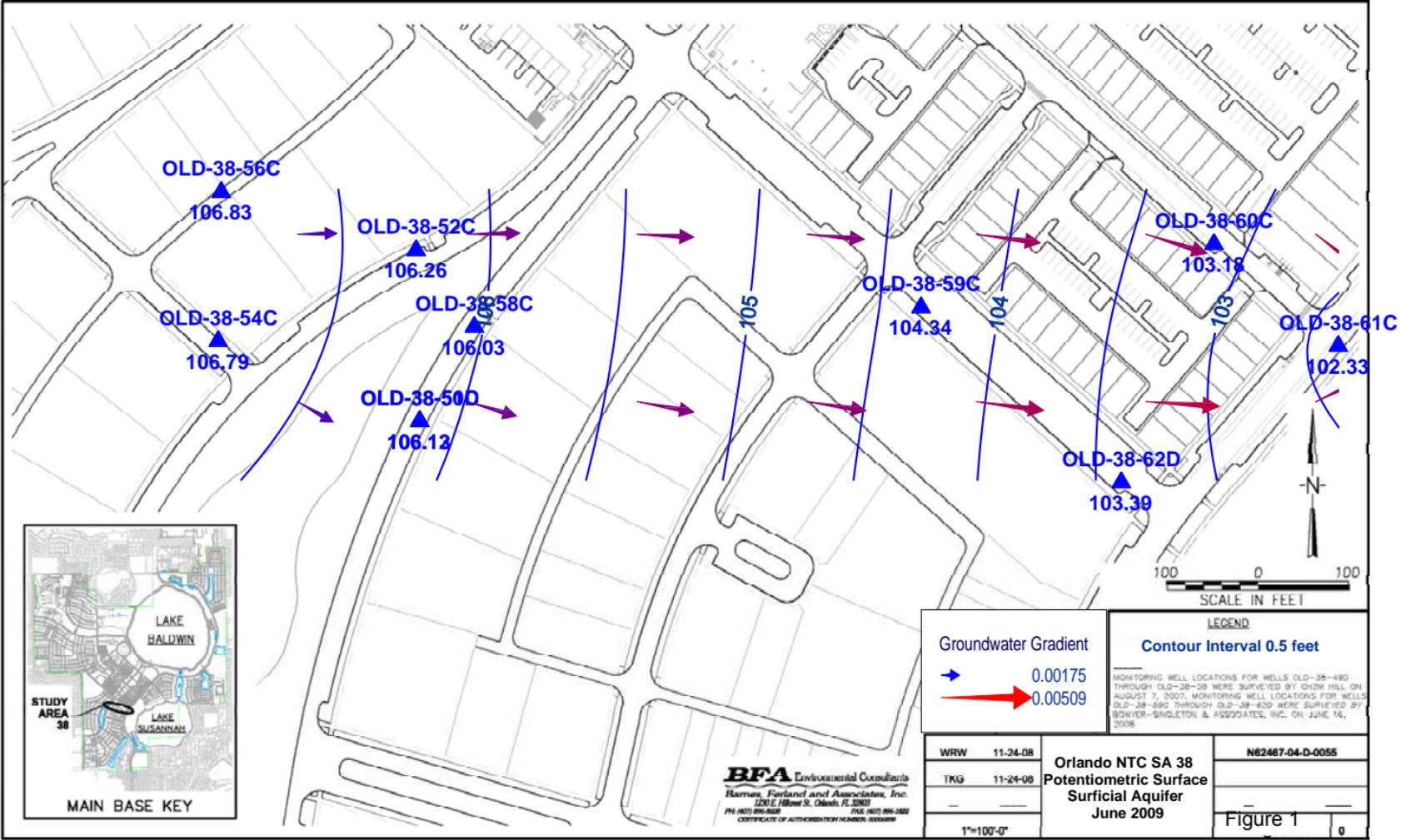
**Contract No. N69450-08-R-8001  
Task Order No. 0002**

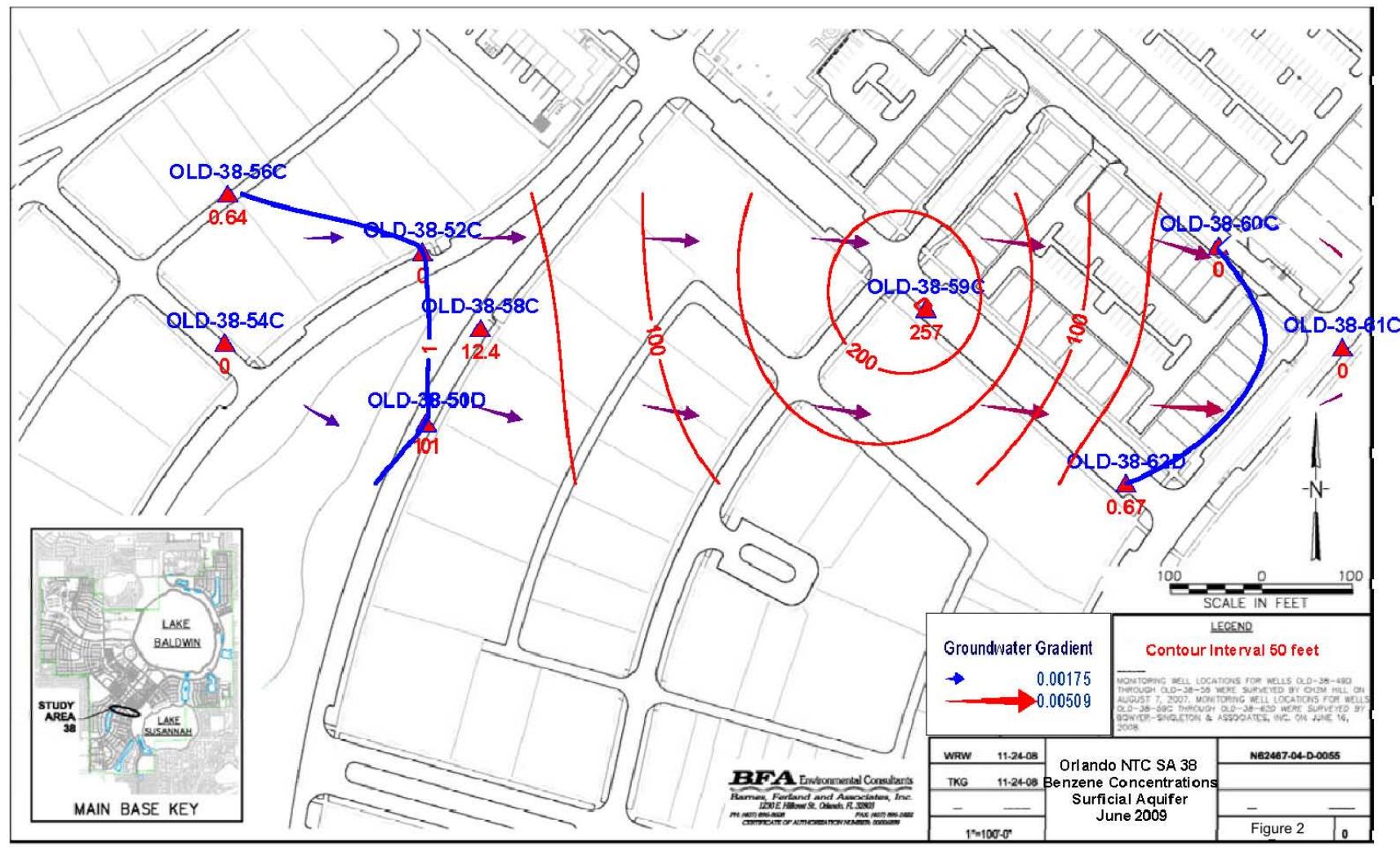
Table 3 Orlando NTC SA 38			Well ID		OLD-38-49D	OLD-38-50C	OLD-38-51D	OLD-38-52C	OLD-38-53D	OLD-38-54C	OLD-38-55D	OLD-38-56C		OLD-38-58C1	OLD-38-58C2	OLD-38-59C	OLD-38-60C	OLD-38-61C	OLD-38-62D	OLD-38-EB
Analytical results June, 2009			Lab ID		F65727-3	F65727-1	F65727-2	F65727-6	F65727-7	F65899-5	F65727-8	F65899-3	F65899-4	F65899-1	F65899-2	F65727-4	F65727-9	F65727-10	F65727-5	F65899-6
Chemical Name	CAS No.	Units	GCTL	NADSC	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/8/2009	6/5/2009	6/8/2009	Duplicate	6/8/2009	6/8/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	
Natural Attenuation Parameters																				
HYDROGEN	1333-74-0	nM/L	*	*	NA	NA	NA	NA	NA	0.93	NA	0.91	NA	1.3	0.78	NA	NA	NA	NA	
METHANE	74-82-8	µg/L	*	*	NA	NA	NA	NA	NA	231	NA	79	59	4,810	163	NA	NA	NA	NA	
NITROGEN, NITRATE (AS N)	14797-55-8	µg/L	10,000	100,000	NA	NA	NA	NA	NA	0.050 U	NA	0.050 U	NA	0.050 U	0.080 I	NA	NA	NA	NA	
NITROGEN, NITRITE	14797-65-0	µg/L	1,000	10,000	NA	NA	NA	NA	NA	0.050 U	NA	0.050 U	NA	0.050 U	0.050 U	NA	NA	NA	NA	
SULFATE (AS SO4)	14808-79-8	µg/L	250,000	2,500,000	NA	NA	NA	NA	NA	15.7	NA	21.8	21.4	7.5	14.3	NA	NA	NA	NA	
Chlorinated Solvents and Degradation Byproducts																				
CARBON TETRACHLORIDE	56-23-5	µg/L	3	300	0.22 U	0.22 U	0.22 U	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U								
CHLOROFORM	67-66-3	µg/L	70	700	0.28 U	0.28 U	0.28 U	0.28 U	1.4 U	0.28 U	0.28 U	0.28 U	0.28 U							
TETRACHLOROETHYLENE(PEC E)	127-18-4	µg/L	3	300	0.22 U	0.22 U	0.22 U	0.22 U	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U							
TRICHLOROETHYLENE	79-01-6	µg/L	3	300	0.32 U	0.32 U	0.32 U	0.32 U	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U							
CIS-1,2-DICHLOROETHYLENE	156-59-2	µg/L	70	700	0.20 U	0.27	0.20 U	0.20 U	0.25	0.20 U	0.20 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U				
TRANS-1,2-DICHLOROETHENE	156-60-5	µg/L	100	1000	0.45 U	0.45 U	0.45 U	0.45 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U							
1,1-DICHLOROETHYLENE	75-35-4	µg/L	7	70	0.54 U	0.54 U	0.54 U	0.54 U	2.7 U	0.54 U	0.54 U	0.54 U	0.54 U							
VINYL CHLORIDE	75-01-4	µg/L	1	10	0.30 U	0.30 U	0.30 U	0.30 U	1.5 U	0.30 U	0.30 U	0.30 U	0.30 U							
1,1,2,2-TETRACHLOROETHANE	79-34-5	µg/L	0.2	20	0.21 U	0.21 U	0.21 U	0.21 U	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U							
1,1,2-TRICHLOROETHANE	79-00-5	µg/L	5	500	0.26 U	0.26 U	0.26 U	0.26 U	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U							
1,1,1-TRICHLOROETHANE	71-55-6	µg/L	5	2000	0.33 U	0.33 U	0.33 U	0.33 U	1.7 U	0.33 U	0.33 U	0.33 U	0.33 U							
1,1-DICHLOROETHANE	75-34-3	µg/L	70	700	0.24 U	0.24 U	0.24 U	0.24 U	1.2 U	0.24 U	0.24 U	0.24 U	0.24 U							
1,2-DICHLOROETHANE	107-06-2	µg/L	3	300	0.34 U	0.42	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U				
METHYL CHLORIDE	74-87-3	µg/L	2.7	27	0.61 U	0.61 U	0.61 U	0.61 U	3.1 U	0.61 U	0.61 U	0.61 U	0.61 U							
CHLOROETHANE	75-00-3	µg/L	12	1200	0.48 U	0.48 U	0.48 U	0.48 U	2.4 U	0.48 U	0.48 U	0.48 U	0.48 U							
METHYLENE CHLORIDE	75-09-2	µg/L	5	500	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.4**							
Hydrocarbon Fuel																				
BENZENE	71-43-2	µg/L	1	100	0.40 U	0.40 U	1.1	0.40 U	0.40 U	0.64	0.40 U	0.40 U	0.40 U	0.40 U	12.4	257	0.40 U	0.40 U	0.67 I	0.40 U
TOLUENE	108-88-3	µg/L	1000	10000	0.35 U	0.35 U	0.35 U	0.35 U	1.8 U	0.35 U	0.35 U	0.35 U	0.35 U							
ETHYLBENZENE	100-41-4	µg/L	700	7000	0.43 U	0.43 U	0.43 U	9.1	2.2 U	0.43 U	0.43 U	0.43 U	0.43 U							
XYLENES (TOTAL)	1330-20-7	µg/L	20	200	0.78 U	1.1	0.78 U	0.78 U	0.78 U	0.78 U	5.8 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U				
TRPH (C8-C40)	FLPRO	mg/l	5	50	0.16 U	0.319	0.16 U	0.16 U	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA				
METHYL TERT BUTYL ETHER	1634-04-4	µg/L	20	200	0.26 U	6.9	0.26 U	0.41	0.39	0.26 U	4.6	12.4	0.26 U	0.26 U	0.26 U	0.26 U				
NAPTHELENE	91-20-3	µg/L	20	200	1.0 U	52.4	1.0 U	1.0 U	1.0 U	1.0 U	2.8	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U				
1,2,4-TRIMETHYLBENZENE	95-63-6	mg/L	10	100	0.22 U	0.34	0.22 U	0.22 U	0.22 U	0.22 U	0.22	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U				
Hydrocarbon Solvents																				
ACETONE	67-64-1	µg/L	6300	63000	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U							
METHYL ETHYL KETONE	78-93-3	µg/L	4200	42000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U							
4-METHYL-2-PENTANONE	108-10-1	µg/L	560	5600	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U							
2-HEXANONE	591-78-6	µg/L	280	2800	5.0 U	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U							
STYRENE	100-42-5	µg/L	100	1000	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U							
CARBON DISULFIDE	75-15-0	µg/L	700	7000	0.40 U	0.40 U														

## FIGURES

**Figure 1** Potentiometric Map, (C & D) Wells

**Figure 2** Groundwater Benzene Isoconcentration Map, (C & D) Wells





Enclosure 5-9

**ENCLOSURE  
APPENDICES**

*(In Electronic Copies only)*

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**A    June 2009 Purge Logs**

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**B    June 2009 Laboratory Analytical Results Reports**

**SA38 Monitoring Report,  
Enclosure 5, June 2009,  
Appendix A, Purge Logs  
(Electronic Copies)**

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-49D	SAMPLE ID: 07-71009/14:OLD-38-49D:6/5/09_12:11_1; DATE: 06/05/2009

## PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 57-62	STATIC DEPTH TO WATER (feet): 7.30	PURGE PUMP TYPE OR SAMPLER: Peristaltic
------------------------------	--------------------------------	--	------------------------------------	---

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (62.61 feet - 7.30 feet) X 0.16 gallons/foot = 9.03 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+ ( 0.00 gallons/foot X64.00 feet)+ 0.07 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	PURGING INITIATED AT: 11:55	PURGING ENDED AT: 12:11	TOTAL VOLUME PURGED (gallons): 1.40
--	--	-----------------------------	-------------------------	-------------------------------------

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:00		0.50	7.40	4.95	-89.20	27.68	202.00	0.90	303.00	milky	organic
12:03	-0.20	0.30	7.40	4.96	-91.30	27.74	202.00	0.70	224.00	milky	organic
12:06	0.00	0.30	7.40	4.95	-92.40	27.76	202.00	0.60	188.00	milky	organic
12:09	0.00	0.30	7.40	4.94	-94.10	27.73	201.00	0.60	149.00	milky	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.6	TEMP.(°C): 27.76	DO:	CO2:	DO High Range:	DO Low Range:		
SEC(uS/cm): 202	pH: 4.95	Alkalinity:	Ferrous Iron:	CO2 High Range:	DO Low Range:		
ORP(mV): -95.5	TURB(NTU): 144	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:		
Salinity:		Sulfate:	Sulfide:				
		Nitrate:					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DW M	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:30
---	-----------------------------	------------------------------	--------------------------

PUMP OR TUBING DEPTH IN WELL (feet): 60.00	SAMPLE PUMP FLOW RATE (mL per minute): 331.22	TUBING MATERIAL CODE: PPE
--	---	---------------------------

FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-49D	SAMPLE ID: 07-71009/14:OLD-38-49D:6/5/09_12:11_1 DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 57-62	STATIC DEPTH TO WATER (feet): 7.30	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (62.61 feet - 7.30 feet) X 0.16 gallons/foot = 9.03 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+ ( 0.00 gallons/foot X64.00 feet)+ 0.07 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60.00	PURGING INITIATED AT: 11:55	PURGING ENDED AT: 12:11	TOTAL VOLUME PURGED (gallons): 1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:00		0.50	7.40	4.95	-89.20	27.68	202.00	0.90	303.00	milky	organic
12:03	-0.20	0.30	7.40	4.96	-91.30	27.74	202.00	0.70	224.00	milky	organic
12:06	0.00	0.30	7.40	4.95	-92.40	27.76	202.00	0.60	188.00	milky	organic
12:09	0.00	0.30	7.40	4.94	-94.10	27.73	201.00	0.60	149.00	milky	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.6	TEMP.(°C): 27.76	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 202	pH: 4.95	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -95.5	TURB(NTU): 144	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 12:11	SAMPLING ENDED AT: 12:30
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PUMP OR TUBING DEPTH IN WELL (feet): 60.00	SAMPLE PUMP FLOW RATE (mL per minute): 331.22	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-50C	SAMPLE ID: 07-71009/14:OLD-38-50C:6/5/09_10:45_1 DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 33-38	STATIC DEPTH TO WATER (feet): 7.75	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (39.65 feet - 7.75 feet) X 0.04 gallons/foot = 1.30 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+( 0.00 gallons/foot X39.00 feet)+ 0.13 gallons = 0.21 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.00	PURGING INITIATED AT: 10:30	PURGING ENDED AT: 10:45	TOTAL VOLUME PURGED (gallons): 1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:35		0.50	7.80	4.37	-26.70	25.62	168.00	3.00	13.90	clear	sulfuric
10:38	-0.20	0.30	7.80	4.24	-32.40	25.60	153.00	2.58	6.60	clear	sulfuric
10:41	0.00	0.30	7.80	4.17	-39.20	25.63	150.00	2.36	2.90	clear	sulfuric
10:44	0.00	0.30	7.80	4.18	-44.30	25.63	149.00	1.12	2.10	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 1.03	TEMP.(°C): 25.64	DO:	CO2:	DO High Range:	DO Low Range:		
SEC(uS/cm): 149	pH: 4.2	Alkalinity:	Ferrous Iron:	CO2 High Range:	DO Low Range:		
ORP(mV): -46.5	TURB(NTU): 2.0	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:		
Salinity:		Sulfate:	Sulfide:				
		Nitrate:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: <i>DWM</i>	SAMPLING INITIATED AT: 10:45	SAMPLING ENDED AT: 10:55
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PUMP OR TUBING DEPTH IN WELL (feet): 35.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38				SITE LOCATION: Orlando			
WELL NO: OLD-38-50C		SAMPLE ID: 07-71009/14:OLD-38-50C:6/5/09_10:45_1				DATE: 06/05/2009	

## PURGING DATA

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	33-38	STATIC DEPTH TO WATER (feet):	7.75	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  

$$= (39.65 \text{ feet} - 7.75 \text{ feet}) \times 0.04 \text{ gallons/foot} = 1.30 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  

$$= 0.05 \text{ gallons} + (0.00 \text{ gallons/foot} \times 39.00 \text{ feet}) + 0.13 \text{ gallons} = 0.21 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		35.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	35.00	PURGING INITIATED AT:	10:30	PURGING ENDED AT:	10:45	TOTAL VOLUME PURGED (gallons):	1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:35		0.50	7.80	4.37	-26.70	25.62	168.00	3.00	13.90	clear	sulfuric
10:38	-0.20	0.30	7.80	4.24	-32.40	25.60	153.00	2.58	6.60	clear	sulfuric
10:41	0.00	0.30	7.80	4.17	-39.20	25.63	150.00	2.36	2.90	clear	sulfuric
10:44	0.00	0.30	7.80	4.18	-44.30	25.63	149.00	1.12	2.10	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 1.03	TEMP.(°C): 25.64	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 149	pH: 4.2	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -46.5	TURB(NTU): 2.0	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: <i>DWM</i>	SAMPLING INITIATED AT: 10:45	SAMPLING ENDED AT: 10:55
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PUMP OR TUBING DEPTH IN WELL (feet): 35.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-51D	SAMPLE ID: 07-71009/14:OLD-38-51D:6/5/09_11:23_1 DATE: 06/05/2009

## PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 45-50	STATIC DEPTH TO WATER (feet): 7.75	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (50.50 feet - 7.75 feet) X 0.04 gallons/foot = 1.74 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+( 0.00 gallons/foot X51.00 feet)+ 0.13 gallons = 0.21 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	PURGING INITIATED AT: 11:05	PURGING ENDED AT: 11:23	TOTAL VOLUME PURGED (gallons): 1.70
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:10		0.50	7.80	4.58	-67.70	26.15	211.00	0.90	45.10	milky	organic
11:13	-0.20	0.30	7.80	4.47	-69.10	25.93	214.00	0.70	21.50	milky	organic
11:16	0.00	0.30	7.80	4.42	-66.70	25.90	214.00	0.70	12.30	clear	organic
11:19	0.00	0.30	7.80	4.40	-68.60	25.77	215.00	0.70	6.10	clear	organic
11:22	0.00	0.30	7.80	4.33	-67.20	25.76	215.00	0.60	5.00	clear	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.6	TEMP.(°C): 25.74	DO:	CO2:	DO High Range:	DO Low Range:		
SEC(uS/cm): 215	pH: 4.33	Alkalinity:	Ferrous Iron:	CO2 High Range:	DO Low Range:		
ORP(mV): -67.7	TURB(NTU): 4.7	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:		
Salinity:		Sulfate:	Sulfide:				
		Nitrate:					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DWm	SAMPLING INITIATED AT: 11:23	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL (feet): 47.00	SAMPLE PUMP FLOW RATE (mL per minute): 357.51	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Filtration Equipment Type:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-51D	SAMPLE ID: 07-71009/14:OLD-38-51D:6/5/09_11:23_1 DATE: 06/05/2009

## PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 45-50	STATIC DEPTH TO WATER (feet): 7.75	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (50.50 feet - 7.75 feet) X 0.04 gallons/foot = 1.74 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+( 0.00 gallons/foot X51.00 feet)+ 0.13 gallons = 0.21 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	PURGING INITIATED AT: 11:05	PURGING ENDED AT: 11:23	TOTAL VOLUME PURGED (gallons): 1.70
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:10		0.50	7.80	4.58	-67.70	26.15	211.00	0.90	45.10	milky	organic
11:13	-0.20	0.30	7.80	4.47	-69.10	25.93	214.00	0.70	21.50	milky	organic
11:16	0.00	0.30	7.80	4.42	-66.70	25.90	214.00	0.70	12.30	clear	organic
11:19	0.00	0.30	7.80	4.40	-68.60	25.77	215.00	0.70	6.10	clear	organic
11:22	0.00	0.30	7.80	4.33	-67.20	25.76	215.00	0.60	5.00	clear	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.6	TEMP.(°C): 25.74	DO:		CO2:	DO High Range:		DO Low Range:
SEC(uS/cm): 215	pH: 4.33	Alkalinity:		Ferrous Iron:	CO2 High Range:		DO Low Range:
ORP(mV): -67.7	TURB(NTU): 4.7	H2S:		Maganese:	Alkalinity High Range:		Alkalinity Low Range:
Salinity:		Sulfate:		Sulfide:			
				Nitrate:			

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DWm	SAMPLING INITIATED AT: 11:23	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL (feet): 47.00	SAMPLE PUMP FLOW RATE (mL per minute): 357.51		TUBING MATERIAL CODE: PPE
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-52C	SAMPLE ID: 07-71009/14:OLD-38-52C:6/5/09_11:7_11: DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	35-40	STATIC DEPTH TO WATER (feet):	8.07	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (40.75 feet - 8.07 feet) X 0.04 gallons/foot = 1.33 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:	10:54	PURGING ENDED AT:	11:07	TOTAL VOLUME PURGED (gallons):	0.90
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:59		0.30	8.05	5.00	76.00	26.36	257.90	0.16	3.30	clear	slight HC
11:03	0.20	0.50	8.05	4.91	74.00	26.31	259.30	0.00	1.70	clear	slight HC
11:06	0.30	0.80	8.05	4.89	72.00	26.22	259.20	0.02	2.10	clear	slight HC
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)		
DO(mg/L): .03	TEMP.(°C): 26.28	DO:		CO2:		DO High Range:		DO Low Range:
SEC(uS/cm): 259.1	pH: 4.88	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:
ORP(mV): 71	TURB(NTU): 1.3	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:
Salinity:		Sulfate:		Sulfide:				
Nitrate:								

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT:	11:07	SAMPLING ENDED AT:	11:23
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PUMP OR TUBING DEPTH IN WELL (feet):	47.00	SAMPLE PUMP FLOW RATE (mL per minute):	262.07	TUBING MATERIAL CODE:	PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-52C	SAMPLE ID: 07-71009/14:OLD-38-52C:6/5/09_11:7_11: DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	35-40	STATIC DEPTH TO WATER (feet):	8.07	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (40.75 feet - 8.07 feet) X 0.04 gallons/foot = 1.33 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:	10:54	PURGING ENDED AT:	11:07	TOTAL VOLUME PURGED (gallons):	0.90
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:59		0.30	8.05	5.00	76.00	26.36	257.90	0.16	3.30	clear	slight HC
11:03	0.20	0.50	8.05	4.91	74.00	26.31	259.30	0.00	1.70	clear	slight HC
11:06	0.30	0.80	8.05	4.89	72.00	26.22	259.20	0.02	2.10	clear	slight HC
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): .03	TEMP.(°C): 26.28	DO:		CO2:		DO High Range:	DO Low Range:
SEC(uS/cm): 259.1	pH: 4.88	Alkalinity:		Ferrous Iron:		CO2 High Range:	DO Low Range:
ORP(mV): 71	TURB(NTU): 1.3	H2S:		Maganese:		Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:		Sulfide:			
Nitrate:							

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 11:07	SAMPLING ENDED AT: 11:23																									
PUMP OR TUBING DEPTH IN WELL (feet): 47.00	SAMPLE PUMP FLOW RATE (mL per minute): 262.07		TUBING MATERIAL CODE: PPE																									
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N																									
Filtration Equipment Type:																												
<table border="1"> <thead> <tr> <th colspan="3">SAMPLE CONTAINER SPECIFICATION</th> <th colspan="2">SAMPLE PRESERVATION</th> <th colspan="2">INTENDED ANALYSIS AND/OR METHOD</th> <th>SAMPLING EQUIPMENT CODE</th> </tr> <tr> <th>SAMPLE ID CODE</th> <th>NO. OF CONTAIN.</th> <th>MAT CODE</th> <th>VOL</th> <th>PRESERV USED</th> <th>TOTAL VOL ADDED IN FIELD (mL)</th> <th>FINAL pH</th> <td></td> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>					SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH									
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE																					
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH																						
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)																												
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other																												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings &lt; 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings &lt; 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-53D	SAMPLE ID: 07-71009/14:OLD-38-53D:6/5/09_11:37_1 DATE: 06/05/2009

## PURGING DATA

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 44-49	STATIC DEPTH TO WATER (feet): 8.07	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (49.50 feet - 8.07 feet) X 0.04 gallons/foot = 1.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.00 gallons+( 0.00 gallons/foot X50.00 feet)+ 0.15 gallons = 0.18 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 46.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 46.00	PURGING INITIATED AT: 11:28	PURGING ENDED AT: 11:37	TOTAL VOLUME PURGED (gallons): 0.80
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:31		0.20	8.07	5.01	70.00	26.60	248.60	0.14	1.50	clear	slight HC
11:34	0.30	0.50	8.07	4.93	75.00	26.55	253.80	0.01	8.70	clear	slight HC
11:37	0.20	0.70	8.07	4.90	77.00	26.54	253.70	0.00	9.30	clear	slight HC

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.01	TEMP.(°C): 26.44	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 253.4	pH: 4.89	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): 77	TURB(NTU): 7.4	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 11:37	SAMPLING ENDED AT: 11:43
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PUMP OR TUBING DEPTH IN WELL (feet): 46.00	SAMPLE PUMP FLOW RATE (mL per minute): 336.48	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38				SITE LOCATION: Orlando			
WELL NO: OLD-38-53D		SAMPLE ID: 07-71009/14:OLD-38-53D:6/5/09_11:37_1			DATE: 06/05/2009		

## PURGING DATA

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	44-49	STATIC DEPTH TO WATER (feet):	8.07	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (49.50 feet - 8.07 feet) X 0.04 gallons/foot = 1.69 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) =0.00 gallons+( 0.00 gallons/foot X50.00 feet)+ 0.15 gallons = 0.18 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	46.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	46.00	PURGING INITIATED AT:	11:28	PURGING ENDED AT:	11:37	TOTAL VOLUME PURGED (gallons):	0.80		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:31		0.20	8.07	5.01	70.00	26.60	248.60	0.14	1.50	clear	slight HC
11:34	0.30	0.50	8.07	4.93	75.00	26.55	253.80	0.01	8.70	clear	slight HC
11:37	0.20	0.70	8.07	4.90	77.00	26.54	253.70	0.00	9.30	clear	slight HC
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.01	TEMP.(°C): 26.44	DO:		CO2:		DO High Range:	
SEC(uS/cm): 253.4	pH: 4.89	Alkalinity:		Ferrous Iron:		DO Low Range:	
ORP(mV): 77	TURB(NTU): 7.4	H2S:		Maganese:		CO2 High Range:	
Salinity:		Sulfate:		Sulfide:		Alkalinity High Range:	
		Nitrate:				Alkalinity Low Range:	

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT:	11:37	SAMPLING ENDED AT:	11:43		
PUMP OR TUBING DEPTH IN WELL (feet): 46.00	SAMPLE PUMP FLOW RATE (mL per minute): 336.48	TUBING MATERIAL CODE: PPE					
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED			
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other							

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-54C	SAMPLE ID: 07-71009/14:OLD-38-54C:6/8/09_9:53_10: DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 35-40	STATIC DEPTH TO WATER (feet): 5.80	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (40.50 feet - 5.80 feet) X 0.04 gallons/foot = 1.42 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.00 gallons+( 0.00 gallons/foot X41.00 feet)+ 0.15 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.00	PURGING INITIATED AT: 9:39	PURGING ENDED AT: 9:53	TOTAL VOLUME PURGED (gallons): 1.00
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:44		0.30	5.87	5.12	27.00	25.89	100.60	0.33	11.70	milky	sulfuric
9:48	0.30	0.60	5.87	5.08	24.00	25.80	103.20	0.10	9.30	milky	sulfuric
9:51	0.30	0.90	5.87	5.04	21.00	25.78	105.00	0.03	6.70	milky	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): .01	TEMP.(°C): 25.79	DO:		CO2:		DO High Range:	DO Low Range:
SEC(uS/cm): 105.4	pH: 5.04	Alkalinity:		Ferrous Iron:		CO2 High Range:	DO Low Range:
ORP(mV): 21	TURB(NTU): 4.5	H2S:		Maganese:		Alkalinity High Range:	Alkalinity Low Range:
Salinity:		Sulfate:		Sulfide:			
		Nitrate:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 9:53	SAMPLING ENDED AT: 10:49
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PUMP OR TUBING DEPTH IN WELL (feet): 37.00	SAMPLE PUMP FLOW RATE (mL per minute): 270.39	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTRATION EQUIPMENT TYPE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)  
 pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-55D	SAMPLE ID: 07-71009/14:OLD-38-55D:6/5/09_12:46_1; DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.00	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 45-50	STATIC DEPTH TO WATER (feet): 5.75	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (50.81 feet - 5.75 feet) X 0.04 gallons/foot = 1.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.00 gallons+( 0.00 gallons/foot X51.00 feet)+ 0.15 gallons = 0.18 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47.00	PURGING INITIATED AT: 12:28	PURGING ENDED AT: 12:46	TOTAL VOLUME PURGED (gallons): 1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:32		0.40	5.75	5.39	0.00	26.57	164.00	0.13	30.00	milky	organic
12:37	0.30	0.70	5.75	5.32	-2.00	26.36	159.40	0.01	15.60	milky	organic
12:41	0.30	1.00	5.75	5.30	-2.00	26.33	158.10	0.01	12.00	milky	organic
12:45	0.30	1.30	5.75	5.26	-2.00	26.34	157.10	0.02	13.30	milky	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): .01	TEMP.(°C): 26.38	DO:	CO2:	DO High Range:	DO Low Range:		
SEC(uS/cm): 157.1	pH: 5.25	Alkalinity:	Ferrous Iron:	CO2 High Range:	DO Low Range:		
ORP(mV): -2	TURB(NTU): 14.5	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:		
Salinity:		Sulfate:	Sulfide:				
		Nitrate:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 12:46	SAMPLING ENDED AT: 12:52
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PUMP OR TUBING DEPTH IN WELL (feet): 47.00	SAMPLE PUMP FLOW RATE (mL per minute): 294.42	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38				SITE LOCATION: Orlando			
WELL NO: OLD-38-56C		SAMPLE ID: 07-71009/14:OLD-38-56C:6/8/09_11:6_11:				DATE: 06/08/2009	

## PURGING DATA

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	30-35	STATIC DEPTH TO WATER (feet):	7.87	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (35.22 feet - 7.87 feet) X 0.04 gallons/foot = 1.12 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) =0.00 gallons+( 0.00 gallons/foot X35.00 feet)+ 0.15 gallons = 0.17 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	31.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	31.00	PURGING INITIATED AT:	10:55	PURGING ENDED AT:	11:06	TOTAL VOLUME PURGED (gallons):	1.10		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:58		0.30	7.90	4.64	95.00	26.35	117.00	0.34	2.30	clear	none
11:02	0.40	0.70	7.90	4.64	90.00	26.14	117.80	0.03	1.00	clear	none
11:05	0.30	1.00	7.90	4.61	88.00	26.03	117.80	0.00	0.40	clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0	TEMP.(°C): 25.94	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 118	pH: 4.62	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): 88	TURB(NTU): 0.4	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Dam All</i>	SAMPLING INITIATED AT:	11:06	SAMPLING ENDED AT:	11:52		
PUMP OR TUBING DEPTH IN WELL (feet): 31.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54	TUBING MATERIAL CODE:	PPE				
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED			
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other							

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-56C	SAMPLE ID: 07-71009/14:OLD-38-56C:6/8/09_11:6_11: DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches):	1.00	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	30-35	STATIC DEPTH TO WATER (feet):	7.87	PURGE PUMP TYPE OR SAMPLER:	Peristaltic		
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (35.22 feet - 7.87 feet) X 0.04 gallons/foot = 1.12 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
=0.00 gallons+( 0.00 gallons/foot X35.00 feet)+ 0.15 gallons = 0.17 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:58		0.30	7.90	4.64	95.00	26.35	117.00	0.34	2.30	clear	none
11:02	0.40	0.70	7.90	4.64	90.00	26.14	117.80	0.03	1.00	clear	none
11:05	0.30	1.00	7.90	4.61	88.00	26.03	117.80	0.00	0.40	clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0	TEMP.(°C): 25.94	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 118	pH: 4.62	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): 88	TURB(NTU): 0.4	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 11:06	SAMPLING ENDED AT: 11:52							
PUMP OR TUBING DEPTH IN WELL (feet): 31.00	SAMPLE PUMP FLOW RATE (mL per minute): 378.54		TUBING MATERIAL CODE: PPE							
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTRATION EQUIPMENT TYPE: Filtration Equipment Type:	DUPPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD								
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	SAMPLING EQUIPMENT CODE			
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other										

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-58 (C-1)	SAMPLE ID: 07-71009/14:OLD-38-58 (C-1):6/8/09_13:7 DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches):	0.38	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	30-35	STATIC DEPTH TO WATER (feet):	0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (37.00 feet - 0.00 feet) X 0.01 gallons/foot = 0.21 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:	12:53	PURGING ENDED AT:	13:07	TOTAL VOLUME PURGED (gallons):	1.20
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:57		0.30	0.00	6.54	-150.00	26.33	657.20	0.04	0.10	yellow	sulfuric
13:01	0.45	0.75	0.00	6.58	-158.00	26.19	654.20	0.03	0.00	yellow	sulfuric
13:06	0.25	1.00	0.00	6.60	-162.00	26.01	650.70	0.07	0.80	yellow	sulfuric
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): .09	TEMP.(°C): 25.98	DO:		CO2:		DO High Range:	
SEC(uS/cm): 650.6	pH: 6.61	Alkalinity:		Ferrous Iron:		DO Low Range:	
ORP(mV): -163	TURB(NTU): .1	H2S:		Maganese:		CO2 High Range:	
Salinity:		Sulfate:		Sulfide:		Alkalinity High Range:	
Nitrate:						Alkalinity Low Range:	

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT:	13:07	SAMPLING ENDED AT:	13:08
PUMP OR TUBING DEPTH IN WELL (feet): 33.00	SAMPLE PUMP FLOW RATE (mL per minute): 324.46			TUBING MATERIAL CODE: PPE	

FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-58 (C-2)	SAMPLE ID: 07-71009/14:OLD-38-58 (C-2):6/8/09_14:1 DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches):	0.38	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	40-45	STATIC DEPTH TO WATER (feet):	0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (46.00 feet - 0.00 feet) X 0.01 gallons/foot = 0.26 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:	13:58	PURGING ENDED AT:	14:10	TOTAL VOLUME PURGED (gallons):	1.10
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:03		0.50	0.00	6.48	-80.00	26.52	393.20	0.08	8.20	clear	none
14:06	0.30	0.80	0.00	6.46	-96.00	26.52	419.60	0.01	5.70	clear	none
14:09	0.20	1.00	0.00	6.43	-111.00	26.42	424.80	0.02	5.00	clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.01	TEMP.(°C): 26.45	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 425.7	pH: 6.44	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -113	TURB(NTU): 4.6	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT: 14:32																																
PUMP OR TUBING DEPTH IN WELL (feet): 43.00	SAMPLE PUMP FLOW RATE (mL per minute): 347.00		TUBING MATERIAL CODE: PPE																																
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N																																
Filtration Equipment Type:																																			
<table border="1"> <thead> <tr> <th colspan="3">SAMPLE CONTAINER SPECIFICATION</th> <th colspan="2">SAMPLE PRESERVATION</th> <th colspan="3">INTENDED ANALYSIS AND/OR METHOD</th> <th>SAMPLING EQUIPMENT CODE</th> </tr> <tr> <th>SAMPLE ID CODE</th> <th>NO. OF CONTAIN.</th> <th>MAT CODE</th> <th>VOL</th> <th>PRESERV USED</th> <th>TOTAL VOL ADDED IN FIELD (mL)</th> <th>FINAL pH</th> <td></td> <td></td> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>									SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE	SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH											
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE																											
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH																													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)																																			
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- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-58 (C-2)	SAMPLE ID: 07-71009/14:OLD-38-58 (C-2):6/8/09_14:1 DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches):	0.38	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	40-45	STATIC DEPTH TO WATER (feet):	0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (46.00 feet - 0.00 feet) X 0.01 gallons/foot = 0.26 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:	13:58	PURGING ENDED AT:	14:10	TOTAL VOLUME PURGED (gallons):	1.10
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:03		0.50	0.00	6.48	-80.00	26.52	393.20	0.08	8.20	clear	none
14:06	0.30	0.80	0.00	6.46	-96.00	26.52	419.60	0.01	5.70	clear	none
14:09	0.20	1.00	0.00	6.43	-111.00	26.42	424.80	0.02	5.00	clear	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.01	TEMP.(°C): 26.45	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 425.7	pH: 6.44	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -113	TURB(NTU): 4.6	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 14:10	SAMPLING ENDED AT: 14:32								
PUMP OR TUBING DEPTH IN WELL (feet): 43.00	SAMPLE PUMP FLOW RATE (mL per minute): 347.00		TUBING MATERIAL CODE: PPE								
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTRATION EQUIPMENT TYPE: Filtration Equipment Type:	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N								
SAMPLE CONTAINER SPECIFICATION											
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other											

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38				SITE LOCATION: Orlando				
WELL NO: OLD-38-59C			SAMPLE ID: 07-71009/14:OLD-38-59C:6/5/09_13:15_1			DATE: 06/05/2009		

## PURGING DATA

WELL DIAMETER (inches):	1.50	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	35-40	STATIC DEPTH TO WATER (feet):	1.71	PURGE PUMP TYPE OR SAMPLER: Peristaltic			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable)											
= (40.00 feet - 1.71 feet) X 0.09 gallons/foot = 3.52 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
=0.05 gallons+( 0.00 gallons/foot X42.00			feet)+ 0.13 gallons = 0.21 gallons								
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 13:00		PURGING ENDED AT: 13:15		TOTAL VOLUME PURGED (gallons): 1.40			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:05		0.50	1.80	4.36	-70.70	26.85	145.00	2.22	0.60	clear	organic
13:08	-0.20	0.30	1.80	4.36	-78.00	26.78	125.00	1.00	0.70	clear	organic
13:11	0.00	0.30	1.80	4.33	-80.00	26.61	122.00	0.70	0.40	clear	organic
13:14	0.00	0.30	1.80	4.35	-82.90	26.58	124.00	0.60	0.30	clear	organic
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.5	TEMP.(°C): 26.54	DO:	CO2:	DO High Range:	DO Low Range:		
SEC(uS/cm): 124	pH: 4.34	Alkalinity:	Ferrous Iron:	CO2 High Range:	DO Low Range:		
ORP(mV): -82.0	TURB(NTU): 0.3	H2S:	Maganese:	Alkalinity High Range:	Alkalinity Low Range:		
Salinity:		Sulfate:	Sulfide:				
		Nitrate:					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DW M	SAMPLING INITIATED AT: 13:15	SAMPLING ENDED AT: 13:30				
PUMP OR TUBING DEPTH IN WELL (feet): 38.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31		TUBING MATERIAL CODE: PPE				
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N				
	Filtration Equipment Type:						
SAMPLE CONTAINER SPECIFICATION      SAMPLE PRESERVATION      INTENDED ANALYSIS AND/OR METHOD      SAMPLING EQUIPMENT CODE							
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump							
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other							

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38			SITE LOCATION: Orlando		
WELL NO: OLD-38-59C		SAMPLE ID: 07-71009/14:OLD-38-59C:6/5/09_13:15_1			DATE: 06/05/2009

## PURGING DATA

WELL DIAMETER (inches):	1.50	TUBING DIAMETER (inches):	0.13	WELL SCREEN INTERVAL DEPTH (feet):	35-40	STATIC DEPTH TO WATER (feet):	1.71	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable  

$$= (40.00 \text{ feet} - 1.71 \text{ feet}) \times 0.09 \text{ gallons/foot} = 3.52 \text{ gallons}$$

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  

$$= 0.05 \text{ gallons} + (0.00 \text{ gallons/foot} \times 42.00 \text{ feet}) + 0.13 \text{ gallons} = 0.21 \text{ gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	38.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	38.00	PURGING INITIATED AT:	13:00	PURGING ENDED AT:	13:15	TOTAL VOLUME PURGED (gallons):	1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:05		0.50	1.80	4.36	-70.70	26.85	145.00	2.22	0.60	clear	organic
13:08	-0.20	0.30	1.80	4.36	-78.00	26.78	125.00	1.00	0.70	clear	organic
13:11	0.00	0.30	1.80	4.33	-80.00	26.61	122.00	0.70	0.40	clear	organic
13:14	0.00	0.30	1.80	4.35	-82.90	26.58	124.00	0.60	0.30	clear	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.5	TEMP.(°C): 26.54	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 124	pH: 4.34	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -82.0	TURB(NTU): 0.3	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES:	DWM	SAMPLING INITIATED AT:	13:15	SAMPLING ENDED AT:	13:30
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PUMP OR TUBING DEPTH IN WELL (feet): 38.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

# GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38				SITE LOCATION: Orlando			
WELL NO: OLD-38-60C		SAMPLE ID: 07-71009/14:OLD-38-60C:6/5/09_13:35_1				DATE: 06/05/2009	

## PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR SAMPLER: Peristaltic							
1.50	0.25	30-35	2.80								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = (35.00 feet - 2.80 feet) X 0.09 gallons/foot = 2.96 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) =0.00 gallons+( 0.00 gallons/foot X34.00 feet)+ 0.15 gallons = 0.23 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00		PURGING INITIATED AT: 13:24		PURGING ENDED AT: 13:35		TOTAL VOLUME PURGED (gallons): 1.00			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:27		0.30	2.80	4.88	31.00	26.94	197.20	0.02	3.30	clear	sulfuric
13:31	0.45	0.75	2.80	4.88	28.00	26.82	195.90	0.03	3.30	clear	sulfuric
13:35	0.15	0.90	2.80	4.85	25.00	26.71	196.70	0.09	2.20	clear	sulfuric
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

## FIELD/TEST KIT

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): .1		TEMP.(°C): 26.69		DO:		CO2:		DO High Range:	
SEC(uS/cm): 196.3		pH: 4.87		Alkalinity:		Ferrous Iron:		DO Low Range:	
ORP(mV): 24		TURB(NTU): 2.2		H2S:		Maganese:		CO2 High Range:	
Salinity:				Sulfate:		Sulfide:		Alkalinity High Range:	
				Nitrate:				Alkalinity Low Range:	

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Dam All</i>	SAMPLING INITIATED AT: 13:35	SAMPLING ENDED AT: 13:37					
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 344.13	TUBING MATERIAL CODE: PPE						
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Filtration Equipment Type:	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)								
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other								

**NOTES:** 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-60C	SAMPLE ID: 07-71009/14:OLD-38-60C:6/5/09_13:35_1; DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.50	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 30-35	STATIC DEPTH TO WATER (feet): 2.80	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (35.00 feet - 2.80 feet) X 0.09 gallons/foot = 2.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 = 0.00 gallons + ( 0.00 gallons/foot X 34.00 feet) + 0.15 gallons = 0.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 13:24	PURGING ENDED AT: 13:35	TOTAL VOLUME PURGED (gallons): 1.00
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:27		0.30	2.80	4.88	31.00	26.94	197.20	0.02	3.30	clear	sulfuric
13:31	0.45	0.75	2.80	4.88	28.00	26.82	195.90	0.03	3.30	clear	sulfuric
13:35	0.15	0.90	2.80	4.85	25.00	26.71	196.70	0.09	2.20	clear	sulfuric

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): .1	TEMP.(°C): 26.69	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 196.3	pH: 4.87	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): 24	TURB(NTU): 2.2	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					
Nitrate:									

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: <i>Damian Allen</i>	SAMPLING INITIATED AT: 13:35	SAMPLING ENDED AT: 13:37
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PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 344.13	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTRATION EQUIPMENT TYPE:	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
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SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
 2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-61C	SAMPLE ID: 07-71009/14:OLD-38-61C:6/5/09_14:7_14: DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.50	TUBING DIAMETER (inches): 0.13	WELL SCREEN INTERVAL DEPTH (feet): 30-35	STATIC DEPTH TO WATER (feet): 3.39	PURGE PUMP TYPE OR SAMPLER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = (35.00 feet - 3.39 feet) X 0.09 gallons/foot = 2.90 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) =0.00 gallons+( 0.00 gallons/foot X34.00 feet)+ 0.15 gallons = 0.17 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.00	PURGING INITIATED AT: 13:57	PURGING ENDED AT: 14:07	TOTAL VOLUME PURGED (gallons): 0.80							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:00		0.30	3.38	5.93	-37.00	26.68	191.90	0.07	0.40	clear	organic
14:03	0.20	0.50	3.38	5.97	-45.00	26.52	190.90	0.01	0.60	yellow	organic
14:06	1.20	1.70	3.38	5.97	-47.00	26.57	190.40	0.03	0.90	yellow	organic
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L): 0.03	TEMP.(°C): 26.6	DO: Alkalinity:		CO2: Ferrous Iron:	DO High Range: CO2 High Range:		DO Low Range: DO Low Range: Alkalinity High Range:
SEC(uS/cm): 190.4	pH: 5.96	pH: TURB(NTU): 0.7		H2S: Maganese: Sulfate: Nitrate:	Alkalinity: Sulfide: Nitrate:		Alkalinity Low Range:

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 14:07	SAMPLING ENDED AT: 14:12				
PUMP OR TUBING DEPTH IN WELL (feet): 30.00	SAMPLE PUMP FLOW RATE (mL per minute): 302.83	TUBING MATERIAL CODE: PPE					
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Filtration Equipment Type:	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump				EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other			

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-62D	SAMPLE ID: 07-71009/14:OLD-38-62D:6/5/09_13:55_14 DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.50	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 55-60	STATIC DEPTH TO WATER (feet): 2.90	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (60.00 feet - 2.90 feet) X 0.09 gallons/foot = 5.24 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 =0.05 gallons+ ( 0.00 gallons/foot X62.00 feet)+ 0.13 gallons = 0.34 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.00	PURGING INITIATED AT: 13:40	PURGING ENDED AT: 13:55	TOTAL VOLUME PURGED (gallons): 1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:45		0.50	3.00	5.21	-109.30	26.75	192.00	0.90	7.70	clear	organic
13:48	-0.20	0.30	3.00	5.05	-110.90	26.52	194.00	0.70	5.70	clear	organic
13:51	0.00	0.30	3.00	4.96	-108.90	26.57	194.00	0.50	3.90	clear	organic
13:54	0.00	0.30	3.00	4.92	-109.40	26.70	192.00	0.50	3.00	clear	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.5	TEMP.(°C): 26.72	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 192	pH: 4.93	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -109.2	TURB(NTU): 2.8	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DWm	SAMPLING INITIATED AT: 13:55	SAMPLING ENDED AT: 14:05
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PUMP OR TUBING DEPTH IN WELL (feet): 58.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD			SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-62D	SAMPLE ID: 07-71009/14:OLD-38-62D:6/5/09_13:55_14 DATE: 06/05/2009

**PURGING DATA**

WELL DIAMETER (inches): 1.50	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet): 55-60	STATIC DEPTH TO WATER (feet): 2.90	PURGE PUMP TYPE OR SAMPLER: Peristaltic
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 only fill out if applicable)  
 = (60.00 feet - 2.90 feet) X 0.09 gallons/foot = 5.24 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable)  
 = 0.05 gallons + ( 0.00 gallons/foot X 62.00 feet) + 0.13 gallons = 0.34 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58.00	PURGING INITIATED AT: 13:40	PURGING ENDED AT: 13:55	TOTAL VOLUME PURGED (gallons): 1.40
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:45		0.50	3.00	5.21	-109.30	26.75	192.00	0.90	7.70	clear	organic
13:48	-0.20	0.30	3.00	5.05	-110.90	26.52	194.00	0.70	5.70	clear	organic
13:51	0.00	0.30	3.00	4.96	-108.90	26.57	194.00	0.50	3.90	clear	organic
13:54	0.00	0.30	3.00	4.92	-109.40	26.70	192.00	0.50	3.00	clear	organic

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)				CHEMetrics Field Data(mg/L)			
DO(mg/L): 0.5	TEMP.(°C): 26.72	DO:		CO2:		DO High Range:		DO Low Range:	
SEC(uS/cm): 192	pH: 4.93	Alkalinity:		Ferrous Iron:		CO2 High Range:		DO Low Range:	
ORP(mV): -109.2	TURB(NTU): 2.8	H2S:		Maganese:		Alkalinity High Range:		Alkalinity Low Range:	
Salinity:		Sulfate:		Sulfide:					

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Darren Miller	SAMPLER(S) SIGNATURES: DWm	SAMPLING INITIATED AT: 13:55	SAMPLING ENDED AT: 14:05
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PUMP OR TUBING DEPTH IN WELL (feet): 58.00	SAMPLE PUMP FLOW RATE (mL per minute): 353.31	TUBING MATERIAL CODE: PPE
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FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
 EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  2. Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);  
 optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

## GROUNDWATER SAMPLING LOG

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SITE NAME: Groundwater Sampling at SA38	SITE LOCATION: Orlando
WELL NO: OLD-38-EB1	SAMPLE ID: 07-71009/14:OLD-38-EB1:6/8/09_17:25_1 DATE: 06/08/2009

**PURGING DATA**

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH (feet):	STATIC DEPTH TO WATER (feet): 0.00	PURGE PUMP TYPE OR SAMPLER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable) = (0.00 feet - 0.00 feet) X 0.00 gallons/foot = 0.00 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) =0.00 gallons+( 0.00 gallons/foot X4.00 feet)+ 0.15 gallons = 0.16 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 0.00	PURGING INITIATED AT: 17:25	PURGING ENDED AT: 17:25	TOTAL VOLUME PURGED (gallons): 0.00							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	DEPTH TO WATER (feet)	pH (standard units)	ORP	TEMP.(°C)	SEC (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

**FIELD/TEST KIT**

Final Purge Readings		Hach Field Data(mg/L)			CHEMetrics Field Data(mg/L)		
DO(mg/L):	TEMP.(°C):	DO:		CO2:	DO High Range:		DO Low Range:
SEC(uS/cm):	pH:	Alkalinity:		Ferrous Iron:	CO2 High Range:		DO Low Range:
ORP(mV):	TURB(NTU):	H2S:		Maganese:	Alkalinity High Range:		Alkalinity Low Range:
Salinity:		Sulfate:		Sulfide:			
<b>SAMPLING DATA</b>							

SAMPLED BY (PRINT) / AFFILIATION: Damian Allen	SAMPLER(S) SIGNATURES: 	SAMPLING INITIATED AT: 17:25	SAMPLING ENDED AT: 17:26
PUMP OR TUBING DEPTH IN WELL (feet): 0.00	SAMPLE PUMP FLOW RATE (mL per minute): 0.00	TUBING MATERIAL CODE: PPE	
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	FIELD-FILTERED: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	FILTER SIZE: NA	DUPLICATE: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Filtration Equipment Type:			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	NO. OF CONTAIN.	MAT CODE	VOL	PRESERV USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other

- NOTES:**
- The above do not constitute all of the information required by Chapter 62-160, F.A.C.
  - Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
- pH: + 0.2 units Temperature: + 0.2 oC Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

**SA38 Monitoring Report,  
Enclosure 5, June 2009,  
Appendix B, Lab Reports  
(Electronic Copies)**



IT'S ALL IN THE CHEMISTRY

06/25/09

## Technical Report for

**BFA Environmental Consultants**

**NTC Orlando, Orlando, FL**



**Accutest Job Number: F65899**

**Sampling Date: 06/08/09**

### Report to:

**BFA Environmental Consultants**  
3655 Maguire Blvd Suite 150  
Orlando, FL 32803  
jwillis@bfaenvironmental.com

**ATTN: John Willis**

**Total number of pages in report: 70**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Harry Behzadi".

**Harry Behzadi, Ph.D.**  
**Laboratory Director**

**Client Service contact: Jean Dent-Smith 407-425-6700**

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK  
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Test results relate only to samples analyzed.



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## Sample Summary

BFA Environmental Consultants

Job No: F65899

NTC Orlando, Orlando, FL

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F65899-1	06/08/09	13:15 DA	06/10/09	AQ	Ground Water	OLD-38-58 (C1)
F65899-2	06/08/09	14:20 DA	06/10/09	AQ	Ground Water	OLD-38-58 (C2)
F65899-3	06/08/09	11:15 DA	06/10/09	AQ	Ground Water	OLD-38-56C
F65899-4	06/08/09	11:15 DA	06/10/09	AQ	Ground Water	OLD-38-56C DUP
F65899-5	06/08/09	10:15 DA	06/10/09	AQ	Ground Water	OLD-38-54C
F65899-6	06/08/09	17:25 DA	06/10/09	AQ	Equipment Blank	EB



IT'S ALL IN THE CHEMISTRY

## Sample Results

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### Report of Analysis

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**Report of Analysis**

Page 1 of 3

**Client Sample ID:** OLD-38-58 (C1)**Lab Sample ID:** F65899-1**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** SW846 8260B**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1 <sup>a</sup>	N0035854.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

**Purge Volume**

Run #1    5.0 ml

Run #2

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 2 of 3

**Client Sample ID:** OLD-38-58 (C1)  
**Lab Sample ID:** F65899-1  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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**Report of Analysis**

Page 3 of 3

**Client Sample ID:** OLD-38-58 (C1)  
**Lab Sample ID:** F65899-1  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Sample was treated with an anti-foaming agent.

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-58 (C1)**Lab Sample ID:** F65899-1**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** RSKSOP-147/175**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038567.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2	XY038592.D	10	06/15/09	CW	n/a	n/a	GXY1585

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	4810 a	5.0	1.6	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

(a) Result is from Run# 2

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 1 of 1

<b>Client Sample ID:</b>	OLD-38-58 (C1)	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-1	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	FLORIDA-PRO SW846 3510C		
<b>Project:</b>	NTC Orlando, Orlando, FL		

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57890.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1040 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
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TPH (C8-C40)	0.16 U	0.24	0.16	mg/l
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<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>	<b>Limits</b>
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84-15-1	o-Terphenyl	58%		38-122%
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U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-58 (C1)  
**Lab Sample ID:** F65899-1  
**Matrix:** AQ - Ground Water  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:46	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:46	CC	EPA 300/SW846 9056
Sulfate	7.5	2.0	1.0	mg/l	1	06/10/09 10:46	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
MDL = Method Detection Limit

U = Indicates a result < MDL  
I = Indicates a result > = MDL but < RL

**Report of Analysis**

Page 1 of 3

**Client Sample ID:** OLD-38-58 (C2)  
**Lab Sample ID:** F65899-2  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	N0035855.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

**Purge Volume**  
Run #1 5.0 ml  
Run #2

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	12.4	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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2.2

2

**Client Sample ID:** OLD-38-58 (C2)  
**Lab Sample ID:** F65899-2  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	9.1	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.0	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.6	1.0	0.26	ug/l	
91-20-3	Naphthalene	2.8	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	2.7	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 3 of 3

**Client Sample ID:** OLD-38-58 (C2)  
**Lab Sample ID:** F65899-2  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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**Client Sample ID:** OLD-38-58 (C2)**Lab Sample ID:** F65899-2**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** RSKSOP-147/175**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038568.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2							

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	163	0.50	0.16	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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**Client Sample ID:** OLD-38-58 (C2)  
**Lab Sample ID:** F65899-2  
**Matrix:** AQ - Ground Water  
**Method:** FLORIDA-PRO SW846 3510C  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57903.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1050 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	
<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>		<b>Limits</b>	
84-15-1	o-Terphenyl	60%			38-122%	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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**Client Sample ID:** OLD-38-58 (C2)  
**Lab Sample ID:** F65899-2  
**Matrix:** AQ - Ground Water  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.080 I	0.10	0.050	mg/l	1	06/10/09 11:04	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 11:04	CC	EPA 300/SW846 9056
Sulfate	14.3	2.0	1.0	mg/l	1	06/10/09 11:04	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 I = Indicates a result > = MDL but < RL

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**Report of Analysis**

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**Client Sample ID:** OLD-38-56C  
**Lab Sample ID:** F65899-3  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	N0035856.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

<b>Purge Volume</b>	
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 2 of 3

**Client Sample ID:** OLD-38-56C**Lab Sample ID:** F65899-3**Matrix:** AQ - Ground Water**Method:** SW846 8260B**Project:** NTC Orlando, Orlando, FL**Date Sampled:** 06/08/09**Date Received:** 06/10/09**Percent Solids:** n/a**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.41	1.0	0.26	ug/l	I
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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<b>Client Sample ID:</b>	OLD-38-56C	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-3	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	NTC Orlando, Orlando, FL		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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<b>Client Sample ID:</b>	OLD-38-56C	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-3	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	RSKSOP-147/175		
<b>Project:</b>	NTC Orlando, Orlando, FL		

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038569.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2							

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	79.0	0.50	0.16	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-56C**Lab Sample ID:** F65899-3**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** FLORIDA-PRO SW846 3510C**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57892.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1040 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>	<b>Limits</b>
84-15-1	o-Terphenyl	75%		38-122%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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<b>Client Sample ID:</b>	OLD-38-56C	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-3	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NTC Orlando, Orlando, FL		

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:27	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:27	CC	EPA 300/SW846 9056
Sulfate	21.8	2.0	1.0	mg/l	1	06/10/09 10:27	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 I = Indicates a result > = MDL but < RL

**Report of Analysis**

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**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	N0035857.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

<b>Purge Volume</b>	
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25	1.0	0.20	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 2 of 3

**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.39	1.0	0.26	ug/l	I
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit

I = Result &gt; = MDL but &lt; RL J = Estimated value

RL = Reporting Limit = PQL

V = Indicates analyte found in associated method blank

L = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 3 of 3

**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Method:** SW846 8260B  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	106%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Method:** RSKSOP-147/175  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038572.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2							

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	59.0	0.50	0.16	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Method:** FLORIDA-PRO SW846 3510C  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57893.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1040 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	
<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>		<b>Limits</b>	
84-15-1	o-Terphenyl	78%			38-122%	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-56C DUP  
**Lab Sample ID:** F65899-4  
**Matrix:** AQ - Ground Water  
**Project:** NTC Orlando, Orlando, FL

**Date Sampled:** 06/08/09  
**Date Received:** 06/10/09  
**Percent Solids:** n/a

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:09	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 10:09	CC	EPA 300/SW846 9056
Sulfate	21.4	2.0	1.0	mg/l	1	06/10/09 10:09	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 I = Indicates a result > = MDL but < RL

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**Report of Analysis**

Page 1 of 3

**Client Sample ID:** OLD-38-54C**Lab Sample ID:** F65899-5**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** SW846 8260B**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	N0035858.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

**Purge Volume**

Run #1 5.0 ml

Run #2

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromoform	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.42	1.0	0.34	ug/l	I
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.27	1.0	0.20	ug/l	I
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit

I = Result &gt; = MDL but &lt; RL J = Estimated value

RL = Reporting Limit = PQL

V = Indicates analyte found in associated method blank

L = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 2 of 3

**Client Sample ID:** OLD-38-54C**Lab Sample ID:** F65899-5**Matrix:** AQ - Ground Water**Method:** SW846 8260B**Project:** NTC Orlando, Orlando, FL**Date Sampled:** 06/08/09**Date Received:** 06/10/09**Percent Solids:** n/a**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.9	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

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<b>Client Sample ID:</b>	OLD-38-54C	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-5	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	NTC Orlando, Orlando, FL		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-54C**Lab Sample ID:** F65899-5**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** RSKSOP-147/175**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038573.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2							

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	231	0.50	0.16	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

**Client Sample ID:** OLD-38-54C**Lab Sample ID:** F65899-5**Date Sampled:** 06/08/09**Matrix:** AQ - Ground Water**Date Received:** 06/10/09**Method:** FLORIDA-PRO SW846 3510C**Percent Solids:** n/a**Project:** NTC Orlando, Orlando, FL

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57894.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1050 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>	<b>Limits</b>
84-15-1	o-Terphenyl	74%		38-122%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

<b>Client Sample ID:</b>	OLD-38-54C	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-5	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NTC Orlando, Orlando, FL		

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/10/09 09:50	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 09:50	CC	EPA 300/SW846 9056
Sulfate	15.7	2.0	1.0	mg/l	1	06/10/09 09:50	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 I = Indicates a result > = MDL but < RL

Accutest Laboratories

**Report of Analysis**

Page 1 of 3

<b>Client Sample ID:</b> EB	<b>Date Sampled:</b> 06/08/09
<b>Lab Sample ID:</b> F65899-6	<b>Date Received:</b> 06/10/09
<b>Matrix:</b> AQ - Equipment Blank	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B	
<b>Project:</b> NTC Orlando, Orlando, FL	

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	N0035859.D	1	06/22/09	MM	n/a	n/a	VN1467
Run #2							

<b>Purge Volume</b>	
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected      MDL - Method Detection Limit

RL = Reporting Limit = PQL

L = Indicates value exceeds calibration range

I = Result &gt; = MDL but &lt; RL   J = Estimated value

V = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 2 of 3

<b>Client Sample ID:</b>	EB	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-6	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	NTC Orlando, Orlando, FL		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.4	5.0	1.0	ug/l	I
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected      MDL - Method Detection Limit

I = Result &gt; = MDL but &lt; RL    J = Estimated value

RL = Reporting Limit = PQL

V = Indicates analyte found in associated method blank

L = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 3 of 3

<b>Client Sample ID:</b>	EB	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-6	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	NTC Orlando, Orlando, FL		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

<b>Client Sample ID:</b>	EB	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-6	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Method:</b>	RSKSOP-147/175		
<b>Project:</b>	NTC Orlando, Orlando, FL		

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	XY038574.D	1	06/12/09	CW	n/a	n/a	GXY1584
Run #2							

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
74-82-8	Methane	0.16 U	0.50	0.16	ug/l	
74-84-0	Ethane	0.32 U	1.0	0.32	ug/l	
74-85-1	Ethene	0.43 U	1.0	0.43	ug/l	

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

<b>Client Sample ID:</b>	EB	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-6	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Method:</b>	FLORIDA-PRO SW846 3510C		
<b>Project:</b>	NTC Orlando, Orlando, FL		

	<b>File ID</b>	<b>DF</b>	<b>Analyzed</b>	<b>By</b>	<b>Prep Date</b>	<b>Prep Batch</b>	<b>Analytical Batch</b>
Run #1	IJ57897.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
Run #2							

	<b>Initial Volume</b>	<b>Final Volume</b>
Run #1	1040 ml	1.0 ml
Run #2		

<b>CAS No.</b>	<b>Compound</b>	<b>Result</b>	<b>RL</b>	<b>MDL</b>	<b>Units</b>	<b>Q</b>
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

<b>CAS No.</b>	<b>Surrogate Recoveries</b>	<b>Run# 1</b>	<b>Run# 2</b>	<b>Limits</b>
84-15-1	o-Terphenyl	81%		38-122%

U = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit = PQL  
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL    J = Estimated value  
 V = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

**Report of Analysis**

Page 1 of 1

<b>Client Sample ID:</b>	EB	<b>Date Sampled:</b>	06/08/09
<b>Lab Sample ID:</b>	F65899-6	<b>Date Received:</b>	06/10/09
<b>Matrix:</b>	AQ - Equipment Blank	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NTC Orlando, Orlando, FL		

**General Chemistry**

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.050 U	0.10	0.050	mg/l	1	06/10/09 11:23	CC	EPA 300/SW846 9056
Nitrogen, Nitrite	0.050 U	0.10	0.050	mg/l	1	06/10/09 11:23	CC	EPA 300/SW846 9056
Sulfate	1.0 U	2.0	1.0	mg/l	1	06/10/09 11:23	CC	EPA 300/SW846 9056

RL = Reporting Limit = PQL  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 I = Indicates a result > = MDL but < RL



## Misc. Forms

### Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



# Accutest Laboratories Southeast

## Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
TEL. 407-425-6700 • FAX: 407-425-0707  
[www.accutest.com](http://www.accutest.com)

Accutest JOB #

Accutest Quote #

F65899

OF

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes											
Company Name	BFA Environmental	Project Name:	NTC ORLANDO	VOC's	Methane/Ethane	FID PRO	Hydrogen	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OI - Oil LIQ - Other Liquid AIR - Air SOI - Other Solid WP - Wipe									
Address	3655 Maguire Blvd Ste 150	Street															
City	Orlando	State	FL														
Zip	32803																
Project Contact		E-mail															
Phone#	407 896 5708																
Sampler(s) Name(s) (Printed)	Damian Allen	Client Purchase Order #															
		COLLECTION		CONTAINER INFORMATION		LAB USE ONLY											
Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	ALONE	HCl	NaOH	PCBS	HSOCs	NaOH/HNO3	HCl/HNO3	DI WATER	MEOH	
1	OLD-38-58(C1)	6-8-09	1315	DIA GW	10	5	3		X						X	X	
2	OLD-38-58(C2)	6-8-09	1420	DIA GW	10	5	3			X	X	X	X	X	X	X	
3	OLD-38-56C	6-8-09	1115	DIA GW	10	2	2			X	X	X	X	X	X	X	
4	OLD-38-56C DUN	6-8-09	1115	DIA GW	9	2	2			X	X	X	X	X	X	X	
5	OLD-38-54C	6-8-09	0115	DIA GW	10	2	2			X	X	X	X	X	X	X	
6	EB	6-8-09	1720	DIA WW	9	2	2			X	X	X	X	X	X	X	
TURNAROUND TIME (Business Days)		Data Deliverable Information										Comments / Remarks					
<input type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> REDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S															
Emergency or Rush T/A Data Available VIA Email or Lablink																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:			Date Time:	Received By:										
<i>John Willis</i>	6-8-09 1730P2	BFA	<i>P.L.D. Inc.</i>			6-8-09 1108	<i>John Willis</i>										
Relinquished by:	Date Time:	Received By:	Relinquished by:			Date Time:	Received By:										
<i>John Willis</i>	6-8-09 1147	<i>John Accutest</i>	<i>John Willis</i>			6-10-09	<i>John Willis</i>										
Lab Use Only: Custody Seal in Place: Y N		Temp Blank Provided: Y N		Preserved where Applicable: Y N		Total # of Coolers:	Cooler Temperature (s) Celsius: 2.4										

**F65899: Chain of Custody**  
**Page 1 of 2**

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATIONACCUTEST'S JOB NUMBER: F65899CLIENT: BFA PROJECT: NTC - OrlandoDATE/TIME RECEIVED: 6-10-09 08:00# OF COOLERS RECEIVED: 1 COOLER TEMPS: 34

METHOD OF DELIVERY: FEDEX UPS

ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0  
 NUMBER OF 5035 FIELD KITS ? 0  
 NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

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TECHNICIAN SIGNATURE/DATE T. T. 6-10-09TECHNICIAN SIGNATURE/DATE CJL 6-10-09

ASBD 12/17/07

SAMPLE INFORMATION

- SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DOES NOT MATCH LABEL(S)
- ID'S ON COC DOES NOT MATCH LABEL(S)
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

F65899: Chain of Custody

Page 2 of 2



## GC/MS Volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

Page 1 of 3

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-MB	N0035848.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
107-02-8	Acrolein	ND	20	5.0	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.40	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	

## Method Blank Summary

Page 2 of 3

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-MB	N0035848.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
591-78-6	2-Hexanone	ND	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.25	ug/l	
100-42-5	Styrene	ND	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.60	1.0	0.50	ug/l	J
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	ND	10	3.6	ug/l	
	m,p-Xylene	ND	2.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.37	ug/l	

## Method Blank Summary

Page 3 of 3

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-MB	N0035848.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98%
17060-07-0	1,2-Dichloroethane-D4	103%
2037-26-5	Toluene-D8	104%
460-00-4	4-Bromofluorobenzene	106%
		87-116%
		76-127%
		86-112%
		84-120%

## Blank Spike Summary

Page 1 of 3

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-BS	N0035847.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	95.0	76	59-134
107-02-8	Acrolein	125	63.1	50	33-157
107-13-1	Acrylonitrile	125	132	106	62-124
71-43-2	Benzene	25	25.8	103	83-124
108-86-1	Bromobenzene	25	24.7	99	83-115
74-97-5	Bromochloromethane	25	23.2	93	78-112
75-27-4	Bromodichloromethane	25	25.1	100	76-116
75-25-2	Bromoform	25	24.4	98	68-128
104-51-8	n-Butylbenzene	25	25.9	104	84-124
135-98-8	sec-Butylbenzene	25	26.1	104	86-127
98-06-6	tert-Butylbenzene	25	25.9	104	83-126
108-90-7	Chlorobenzene	25	24.2	97	87-115
75-00-3	Chloroethane	25	31.3	125	54-166
67-66-3	Chloroform	25	27.2	109	85-123
95-49-8	o-Chlorotoluene	25	24.4	98	84-121
106-43-4	p-Chlorotoluene	25	24.6	98	84-120
110-75-8	2-Chloroethyl vinyl ether	125	114	91	63-125
75-15-0	Carbon disulfide	25	24.7	99	67-147
56-23-5	Carbon tetrachloride	25	29.0	116	74-139
75-34-3	1,1-Dichloroethane	25	28.0	112	82-127
75-35-4	1,1-Dichloroethylene	25	27.6	110	75-133
563-58-6	1,1-Dichloropropene	25	27.3	109	87-127
96-12-8	1,2-Dibromo-3-chloropropane	25	22.7	91	61-118
106-93-4	1,2-Dibromoethane	25	23.5	94	80-115
107-06-2	1,2-Dichloroethane	25	25.1	100	76-122
78-87-5	1,2-Dichloropropane	25	26.3	105	81-120
142-28-9	1,3-Dichloropropane	25	23.9	96	81-113
594-20-7	2,2-Dichloropropane	25	29.6	118	77-138
124-48-1	Dibromochloromethane	25	24.5	98	74-116
75-71-8	Dichlorodifluoromethane	25	23.3	93	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.3	97	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.7	103	83-119
541-73-1	m-Dichlorobenzene	25	24.7	99	86-115
95-50-1	o-Dichlorobenzene	25	24.9	100	85-115
106-46-7	p-Dichlorobenzene	25	24.5	98	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.3	109	82-126

4.2.1  
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## Blank Spike Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-BS	N0035847.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	26.0	104	87-123
100-41-4	Ethylbenzene	25	24.8	99	87-118
591-78-6	2-Hexanone	125	122	98	58-125
87-68-3	Hexachlorobutadiene	25	27.2	109	71-133
98-82-8	Isopropylbenzene	25	25.8	103	87-131
99-87-6	p-Isopropyltoluene	25	26.2	105	83-125
108-10-1	4-Methyl-2-pentanone	125	126	101	62-125
74-83-9	Methyl bromide	25	31.2	125	55-151
74-87-3	Methyl chloride	25	30.3	121	55-173
74-95-3	Methylene bromide	25	24.4	98	81-116
75-09-2	Methylene chloride	25	26.4	106	69-125
78-93-3	Methyl ethyl ketone	125	112	90	61-127
1634-04-4	Methyl Tert Butyl Ether	25	25.2	101	75-116
91-20-3	Naphthalene	25	24.5	98	59-125
103-65-1	n-Propylbenzene	25	25.9	104	86-125
100-42-5	Styrene	25	23.7	95	78-118
630-20-6	1,1,1,2-Tetrachloroethane	25	24.6	98	81-119
71-55-6	1,1,1-Trichloroethane	25	28.7	115	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.9	96	71-120
79-00-5	1,1,2-Trichloroethane	25	23.3	93	80-114
87-61-6	1,2,3-Trichlorobenzene	25	24.1	96	64-126
96-18-4	1,2,3-Trichloropropane	25	20.3	81	77-115
120-82-1	1,2,4-Trichlorobenzene	25	24.1	96	68-123
95-63-6	1,2,4-Trimethylbenzene	25	24.4	98	82-120
108-67-8	1,3,5-Trimethylbenzene	25	24.7	99	83-123
127-18-4	Tetrachloroethylene	25	26.7	107	80-131
108-88-3	Toluene	25	24.9	100	86-116
79-01-6	Trichloroethylene	25	26.0	104	85-124
75-69-4	Trichlorofluoromethane	25	28.4	114	66-156
75-01-4	Vinyl chloride	25	26.7	107	57-153
108-05-4	Vinyl Acetate	125	154	123	38-159
	m,p-Xylene	50	48.2	96	86-121
95-47-6	o-Xylene	25	24.6	98	83-121

4.2.1  
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## Blank Spike Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1467-BS	N0035847.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	76-127%
2037-26-5	Toluene-D8	96%	86-112%
460-00-4	4-Bromofluorobenzene	99%	84-120%

4.2.1  
4

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 3

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65988-2MS	N0035860.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2MSD	N0035861.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2	N0035853.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	F65988-2 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U	125	101	81	99.4	80	2	59-134/14
107-02-8	Acrolein	20 U	125	65.4	52	63.5	51	3	33-157/21
107-13-1	Acrylonitrile	10 U	125	161	129*	154	123	4	62-124/13
71-43-2	Benzene	1.0 U	25	27.0	108	27.4	110	1	83-124/11
108-86-1	Bromobenzene	1.0 U	25	26.4	106	26.1	104	1	83-115/10
74-97-5	Bromochloromethane	1.0 U	25	23.5	94	24.4	98	4	78-112/10
75-27-4	Bromodichloromethane	1.0 U	25	27.6	110	27.0	108	2	76-116/10
75-25-2	Bromoform	1.0 U	25	24.8	99	24.0	96	3	68-128/11
104-51-8	n-Butylbenzene	1.0 U	25	26.1	104	26.2	105	0	84-124/10
135-98-8	sec-Butylbenzene	1.0 U	25	27.8	111	27.9	112	0	86-127/10
98-06-6	tert-Butylbenzene	1.0 U	25	26.9	108	27.0	108	0	83-126/10
108-90-7	Chlorobenzene	1.0 U	25	25.5	102	25.8	103	1	87-115/9
75-00-3	Chloroethane	2.0 U	25	36.1	144	35.3	141	2	54-166/20
67-66-3	Chloroform	1.0 U	25	28.7	115	30.3	121	5	85-123/10
95-49-8	o-Chlorotoluene	1.0 U	25	25.2	101	25.1	100	0	84-121/10
106-43-4	p-Chlorotoluene	1.0 U	25	25.0	100	24.8	99	1	84-120/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U	125	ND	0*	ND	0*	nc	63-125/24
75-15-0	Carbon disulfide	2.0 U	25	26.4	106	28.1	112	6	67-147/12
56-23-5	Carbon tetrachloride	1.0 U	25	28.1	112	28.4	114	1	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U	25	29.7	119	30.2	121	2	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U	25	28.6	114	30.5	122	6	75-133/13
563-58-6	1,1-Dichloropropene	1.0 U	25	27.3	109	27.8	111	2	87-127/10
96-12-8	1,2-Dibromo-3-chloropropane	2.0 U	25	26.5	106	27.8	111	5	61-118/15
106-93-4	1,2-Dibromoethane	1.0 U	25	25.2	101	26.3	105	4	80-115/10
107-06-2	1,2-Dichloroethane	1.0 U	25	28.1	112	27.7	111	1	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U	25	29.1	116	28.7	115	1	81-120/11
142-28-9	1,3-Dichloropropane	1.0 U	25	24.6	98	25.1	100	2	81-113/11
594-20-7	2,2-Dichloropropane	1.0 U	25	27.1	108	28.1	112	4	77-138/12
124-48-1	Dibromochloromethane	1.0 U	25	24.6	98	24.6	98	0	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U	25	20.9	84	23.6	94	12	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U	25	25.2	101	25.5	102	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U	25	25.0	100	24.4	98	2	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U	25	25.9	104	25.5	102	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U	25	26.6	106	26.1	104	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U	25	26.4	106	25.8	103	2	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U	25	30.2	121	31.0	124	3	82-126/10

4.3.1  
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# Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65988-2MS	N0035860.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2MSD	N0035861.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2	N0035853.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	F65988-2 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	1.0 U	25	24.1	96	24.1	96	0	87-123/10
100-41-4	Ethylbenzene	1.0 U	25	26.2	105	26.9	108	3	87-118/10
591-78-6	2-Hexanone	10 U	125	157	126*	159	127*	1	58-125/14
87-68-3	Hexachlorobutadiene	2.0 U	25	28.3	113	28.8	115	2	71-133/12
98-82-8	Isopropylbenzene	1.0 U	25	27.9	112	28.1	112	1	87-131/10
99-87-6	p-Isopropyltoluene	1.0 U	25	26.9	108	26.8	107	0	83-125/9
108-10-1	4-Methyl-2-pentanone	5.0 U	125	166	133*	171	137*	3	62-125/13
74-83-9	Methyl bromide	2.0 U	25	30.5	122	32.2	129	5	55-151/21
74-87-3	Methyl chloride	2.0 U	25	34.2	137	35.4	142	3	55-173/22
74-95-3	Methylene bromide	2.0 U	25	28.2	113	27.9	112	1	81-116/10
75-09-2	Methylene chloride	5.0 U	25	30.7	123	30.7	123	0	69-125/11
78-93-3	Methyl ethyl ketone	5.0 U	125	134	107	130	104	3	61-127/13
1634-04-4	Methyl Tert Butyl Ether	1.0 U	25	26.5	106	28.4	114	7	75-116/10
91-20-3	Naphthalene	5.0 U	25	28.8	115	29.5	118	2	59-125/15
103-65-1	n-Propylbenzene	1.0 U	25	26.6	106	27.2	109	2	86-125/10
100-42-5	Styrene	1.0 U	25	25.7	103	26.1	104	2	78-118/11
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	25	26.0	104	25.9	104	0	81-119/10
71-55-6	1,1,1-Trichloroethane	1.0 U	25	28.0	112	29.2	117	4	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	25	26.2	105	26.1	104	0	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U	25	25.7	103	25.8	103	0	80-114/11
87-61-6	1,2,3-Trichlorobenzene	1.0 U	25	26.7	107	26.7	107	0	64-126/16
96-18-4	1,2,3-Trichloropropane	2.0 U	25	23.0	92	22.3	89	3	77-115/12
120-82-1	1,2,4-Trichlorobenzene	1.0 U	25	26.5	106	26.3	105	1	68-123/11
95-63-6	1,2,4-Trimethylbenzene	2.0 U	25	25.0	100	25.0	100	0	82-120/10
108-67-8	1,3,5-Trimethylbenzene	2.0 U	25	25.3	101	25.3	101	0	83-123/10
127-18-4	Tetrachloroethylene	1.0 U	25	27.5	110	27.8	111	1	80-131/12
108-88-3	Toluene	1.0 U	25	25.3	101	26.9	108	6	86-116/10
79-01-6	Trichloroethylene	1.0 U	25	27.4	110	27.8	111	1	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U	25	28.2	113	29.7	119	5	66-156/15
75-01-4	Vinyl chloride	1.0 U	25	26.6	106	28.9	116	8	57-153/22
108-05-4	Vinyl Acetate	10 U	125	176	141	176	141	0	38-159/11
	m,p-Xylene	2.0 U	50	50.9	102	52.1	104	2	86-121/10
95-47-6	o-Xylene	1.0 U	25	26.1	104	26.4	106	1	83-121/10

## Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65988-2MS	N0035860.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2MSD	N0035861.D	1	06/22/09	MM	n/a	n/a	VN1467
F65988-2	N0035853.D	1	06/22/09	MM	n/a	n/a	VN1467

The QC reported here applies to the following samples:

Method: SW846 8260B

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Surrogate Recoveries	MS	MSD	F65988-2	Limits
1868-53-7	Dibromofluoromethane	100%	101%	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	108%	110%	102%	76-127%
2037-26-5	Toluene-D8	92%	97%	102%	86-112%
460-00-4	4-Bromofluorobenzene	94%	96%	101%	84-120%



## GC Volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY1584-MB	XY038561.D1		06/12/09	CW	n/a	n/a	GXY1584

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	
74-84-0	Ethane	ND	1.0	0.32	ug/l	
74-85-1	Ethene	ND	1.0	0.43	ug/l	

## Method Blank Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY1585-MB	XY038590.D1		06/15/09	CW	n/a	n/a	GXY1585

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.16	ug/l	

## Blank Spike Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY1584-BS	XY038562.D1		06/12/09	CW	n/a	n/a	GXY1584

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	116	107	54-149
74-84-0	Ethane	219	228	104	57-143
74-85-1	Ethene	290	294	101	57-143

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## Blank Spike Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY1585-BS	XY038591.D1		06/15/09	CW	n/a	n/a	GXY1585

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
74-82-8	Methane	108	134	124	54-149

5.2.2

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## Matrix Spike Summary

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Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65899-4MS	XY038585.D1		06/12/09	CW	n/a	n/a	GXY1584
F65899-4	XY038572.D1		06/12/09	CW	n/a	n/a	GXY1584

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	F65899-4		Spike	MS	MS	Limits
		ug/l	Q	ug/l	ug/l	%	
74-82-8	Methane	59.0		108	185	117	54-149
74-84-0	Ethane	1.0 U		219	247	113	57-143
74-85-1	Ethene	1.0 U		290	319	110	57-143

## Matrix Spike Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65913-10MS	XY038609.D1		06/15/09	CW	n/a	n/a	GXY1585
F65913-10	XY038601.D1		06/15/09	CW	n/a	n/a	GXY1585

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1

CAS No.	Compound	F65913-10		Spike	MS	MS	Limits
		ug/l	Q	ug/l	ug/l	%	
74-82-8	Methane	1.59		108	136	124	54-149

## Duplicate Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65899-5DUP	XY038584.D 1		06/12/09	CW	n/a	n/a	GXY1584
F65899-5	XY038573.D 1		06/12/09	CW	n/a	n/a	GXY1584

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	F65899-5		DUP		Q	RPD	Limits
		ug/l	Q	ug/l				
74-82-8	Methane	231		216		7		24
74-84-0	Ethane	1.0 U		ND		nc		23
74-85-1	Ethene	1.0 U		ND		nc		10

## Duplicate Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F65913-10DUP	XY038608.D1		06/15/09	CW	n/a	n/a	GXY1585
F65913-10	XY038601.D1		06/15/09	CW	n/a	n/a	GXY1585

The QC reported here applies to the following samples:

Method: RSKSOP-147/175

F65899-1

CAS No.	Compound	F65913-10		DUP		Q	RPD	Limits
		ug/l	Q	ug/l				
74-82-8	Methane	1.59		1.63		2		24



## GC Semi-volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



## Method Blank Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29257-MB	IJ57877.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004

The QC reported here applies to the following samples:

Method: FLORIDA-PRO

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	ND	0.25	0.17	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	81% 38-122%

## Blank Spike Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29257-BS	IJ57876.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004

The QC reported here applies to the following samples:

Method: FLORIDA-PRO

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C8-C40)	0.85	0.664	78	54-110

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	81%	38-122%

# Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F65899

Account: BFACFLO BFA Environmental Consultants

Project: NTC Orlando, Orlando, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP29257-MS	IJ57898.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
OP29257-MSD	IJ57899.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004
F65899-6	IJ57897.D	1	06/16/09	SL	06/11/09	OP29257	GIJ2004

The QC reported here applies to the following samples:

Method: FLORIDA-PRO

F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

CAS No.	Compound	F65899-6		Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
		mg/l	Q							
	TPH (C8-C40)	0.24	U	1.63	1.44	88	1.34	82	7	54-110/28

CAS No.	Surrogate Recoveries	MS	MSD	F65899-6	Limits
84-15-1	o-Terphenyl	94%	86%	81%	38-122%



## General Chemistry

### QC Data Summaries

7

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: F65899  
Account: BFACFLO - BFA Environmental Consultants  
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP13076/GN35404	0.50	0.0	mg/l	12.5	11.7	93.6	90-110%
Chloride	GP13076/GN35404	2.0	0.0	mg/l	50	47.8	95.6	90-110%
Fluoride	GP13076/GN35404	0.20	0.0	mg/l	2.5	2.36	94.4	90-110%
Nitrogen, Nitrate	GP13076/GN35404	0.10	0.0	mg/l	2.5	2.39	95.6	90-110%
Nitrogen, Nitrite	GP13076/GN35404	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Sulfate	GP13076/GN35404	2.0	0.0	mg/l	50	46.0	92.0	90-110%

Associated Samples:

Batch GP13076: F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: F65899  
Account: BFACFLO - BFA Environmental Consultants  
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Bromide	GP13076/GN35404	F65899-5	mg/l	0.39	0.41	5.0	0-20%
Chloride	GP13076/GN35404	F65899-5	mg/l	11.4	11.6	1.7	0-20%
Fluoride	GP13076/GN35404	F65899-5	mg/l	0.10 U	0.0	0.0	0-20%
Nitrogen, Nitrate	GP13076/GN35404	F65899-5	mg/l	0.050 U	0.0	0.0	0-20%
Nitrogen, Nitrite	GP13076/GN35404	F65899-5	mg/l	0.050 U	0.0	0.0	0-20%
Sulfate	GP13076/GN35404	F65899-5	mg/l	15.7	16.4	4.4	0-20%

Associated Samples:

Batch GP13076: F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

(\*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: F65899  
Account: BFACFLO - BFA Environmental Consultants  
Project: NTC Orlando, Orlando, FL

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Bromide	GP13076/GN35404	F65899-5	mg/l	0.39	12.5	12.1	93.7	90-110%
Chloride	GP13076/GN35404	F65899-5	mg/l	11.4	50	58.9	95.0	90-110%
Fluoride	GP13076/GN35404	F65899-5	mg/l	0.10 U	2.5	1.9	76.0N(a)	90-110%
Nitrogen, Nitrate	GP13076/GN35404	F65899-5	mg/l	0.050 U	2.5	3.2	128.0N(a)	90-110%
Nitrogen, Nitrite	GP13076/GN35404	F65899-5	mg/l	0.050 U	2.5	1.4	56.0N(a)	90-110%
Sulfate	GP13076/GN35404	F65899-5	mg/l	15.7	50	60.4	89.4N(a)	90-110%

Associated Samples:

Batch GP13076: F65899-1, F65899-2, F65899-3, F65899-4, F65899-5, F65899-6

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.



Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St.  
Suite C-15  
Orlando, FL 32811

Page: Page 1 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

## Laboratory Results

Total pages in data package. 9

Lab Sample #	Client Sample ID
P0906214-01	F65899-1
P0906214-02	F65899-2
P0906214-03	F65899-3
P0906214-04	F65899-4

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not

Approved By: Debbie Hallo Date: 6/24/09

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.  
Please call customer service at (412)826-5245 or email [customerservice@microseeps.com](mailto:customerservice@microseeps.com).

### Case Narrative:

Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St.  
Suite C-15  
Orlando, FL 32811

Page: Page 2 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
F65899-1	Vapor	P0906214-01		08 Jun. 09 13:15		12 Jun. 09 15:03	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis N Hydrogen		1.300	0.600	nM	AM20GAX	6/22/09	sl



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St  
Suite C-15  
Orlando, FL 32811

Page: Page 3 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
F65899-2	Vapor	P0906214-02		08 Jun. 09 14:20		12 Jun. 09 15:03	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis							
N Hydrogen		0.780	0.600	nM	AM20GAX	6/22/09	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis



Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St.  
Suite C-15  
Orlando, FL 32811

Page: Page 4 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
F65899-3	Vapor	P0906214-03		08 Jun. 09 11:15		12 Jun. 09 15:03	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis							
N Hydrogen		0.910	0.600	nM	AM20GAX	6/22/09	sl

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis



Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St.  
Suite C-15  
Orlando, FL 32811

Page: Page 5 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>		<u>Sampled Date/Time</u>		<u>Received</u>	
F65899-4	Vapor	P0906214-04		08 Jun. 09 10:15		12 Jun. 09 15:03	
<u>Analyte(s)</u>	<u>Flag</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
RiskAnalysis N Hydrogen	J	0.930	1.200	nM	AM20GAX	6/22/09	sl



Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Accutest Labs  
Contact: Aaron BenDavid  
Address: 4405 Vineland St  
Suite C-15  
Orlando, FL 32811

Page: Page 6 of 6  
Lab Proj #: P0906214  
Report Date: 06/24/09  
Client Proj Name: F65899  
Client Proj #: F65899

**Prep Method:** Hydrogen by Bubble Strip  
**Analysis Method:** Hydrogen by Bubble Strip

**M090622043-MB**

	<u>Result</u>	<u>TrueSpikeConc.</u>	<u>RDL</u>	<u>%Recovery</u>	<u>Ctl Limits</u>
Hydrogen	< 0.600 nM		0.600		- NA

**M090622043-LCS**

	<u>Result</u>	<u>TrueSpikeConc.</u>	<u>%Recovery</u>	<u>Ctl Limits</u>
Hydrogen	9.300 nM	9.78	95.00	75 - 125

**M090622043-LCSD**

	<u>Result</u>	<u>TrueSpikeConc.</u>	<u>%Recovery</u>	<u>Ctl Limits</u>	<u>RPD</u>	<u>RPD Ctl Limits</u>
Hydrogen	9.300 nM	9.78	95.00	75 - 125	0.00	0 - 20

  Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis





## NON-CONFORMANCE FORM

Microseeps Project Number:

P0906214

Date: 6/12 Time of Receipt: \_\_\_\_\_Receiver: DLClient: A1-0

## REASON FOR NON-COMPLIANCE:

-Y not on ROC

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## ACTION TAKEN:

Client name: Aaron Ben David Date: 6/12 Time: 4:15

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Customer Service Initials: DT Date: \_\_\_\_\_

**Debbie Hallo**

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**From:** Aaron Ben David [AaronBD@accutest.com]  
**Sent:** Friday, June 12, 2009 4:16 PM  
**To:** Debbie Hallo  
**Subject:** RE: F65899

yes please

Aaron S. Ben David  
Sample Management Supervisor/Project Manager  
Accutest Labs, SE  
407-425-6700  
407-425-0707 Fax  
[aaronbd@accutest.com](mailto:aaronbd@accutest.com)

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---

**From:** Debbie Hallo [mailto:[dhallo@microseeps.com](mailto:dhallo@microseeps.com)]  
**Sent:** Friday, June 12, 2009 4:15 PM  
**To:** Aaron Ben David  
**Subject:** F65899

Hi Aaron  
Take a look at the attached coc. F65899-4 is not listed but we did get the sample. Shall we add it to the coc?

*Debbie Hallo*  
Microseeps, Inc  
220 William Pitt Way  
Pittsburgh, PA 15238  
Phone 412 826 5245  
Fax 412 826 3433  
[www.microseeps.com](http://www.microseeps.com)

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